The OIL WEEKLY

A Journal for
Oil and Gas Producers and Field Men

HOUSTON
LOS ANGELES
PITTSBURGH
FT. WORTH
TULSA
CHICAGO

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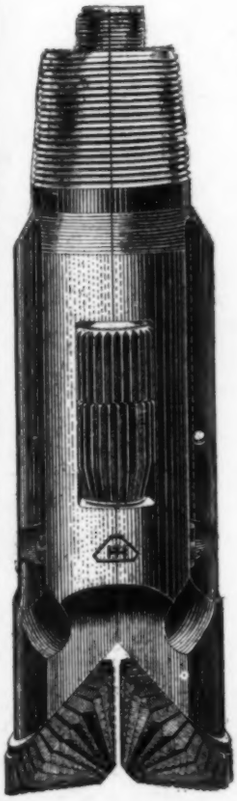
ADVERTISER'S INDEX
PAGE 19

There is only ONE thing to do when You Strike

ROCK



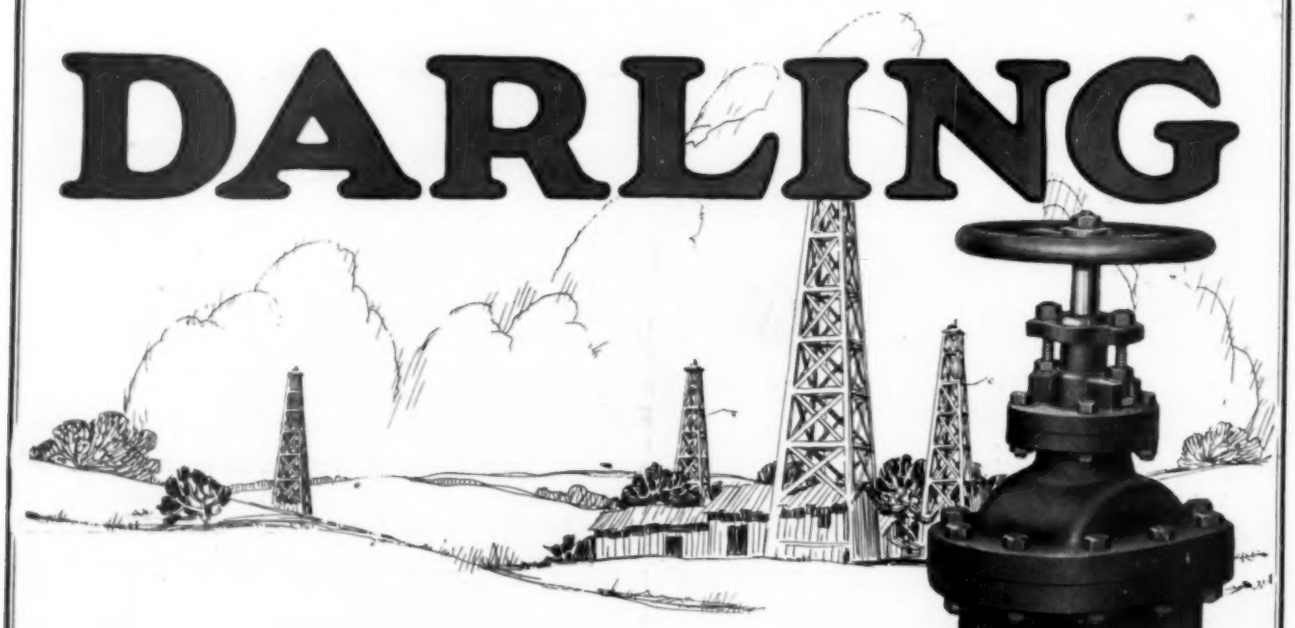
Hughes Simplex Rock Bit

Hughes Rock Bits are sold by supply stores everywhere

Hughes Tool Co.

Houston, Texas Los Angeles, Calif.

DARLING



TO OPEN AND SHUT—that's all you ask of a valve. Yet how few will actually do those two things when you want them to!

Some scale up and jam when open. Others wedge themselves shut with dirt and sand to a point where a crowbar won't open 'em up. Still others go out of commission after unequal wear has resulted in wasteful leakage.

Darling appreciated the work oil field valves had to perform before the Darling was offered to the industry, with the result that Darling Valves are known from Pennsylvania to the Pacific as the valves that Operate Easily and Shut Tight.

Self-aligning, self cleaning discs. No pockets or ribs to collect sand and scale. Simple and compact—will not jam nor dissemble. Easily repaired in the field.

Darling Valve & Mfg. Co.

New York Main Office: WILLIAMSPORT, PA. Chicago

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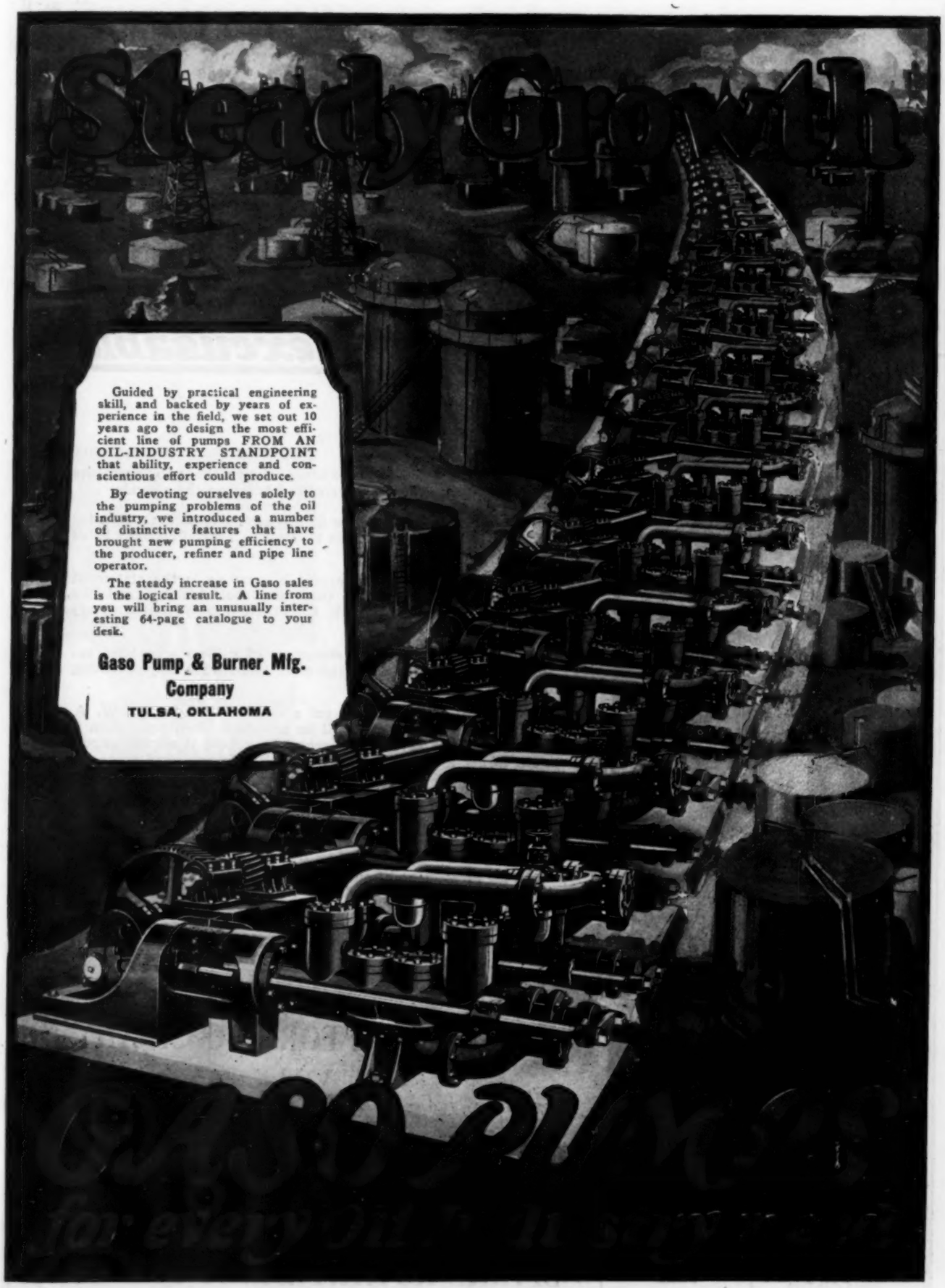
Frick-Reid Co., Tulsa and Branches in All Fields.
International Supply Co., Tulsa and Branches.
Atlas Supply Co., Muskogee, Oklahoma City and Fort Worth.
Petroleum Supply Co., Houston.

By Invitation Member

GATE VALVES

THE OIL WEEKLY. Issued weekly by the Gulf Publishing Co., 1716 Dallas Ave., Houston, Texas. Subscription price $1.00 per year; 10 cents per copy. Entered as second-class mail matter December 23, 1916, at the post office at Houston, Texas, under act of March 3, 1879.


Steady Growth
Guided by practical engineering skill, and backed by years of experience in the field, we set out 10 years ago to design the most efficient line of pumps FROM AN OIL-INDUSTRY STANDPOINT that ability, experience and conscientious effort could produce.
By devoting ourselves solely to the pumping problems of the oil industry, we introduced a number of distinctive features that have brought new pumping efficiency to the producer, refiner and pipe line operator.
The steady increase in Gaso sales is the logical result. A line from you will bring an unusually interesting 64-page catalogue to your desk.
Gaso Pump & Burner Mfg. Company
TULSA, OKLAHOMA

THE OIL WEEKLY 27

Much Trouble Caused by Crooked Holes

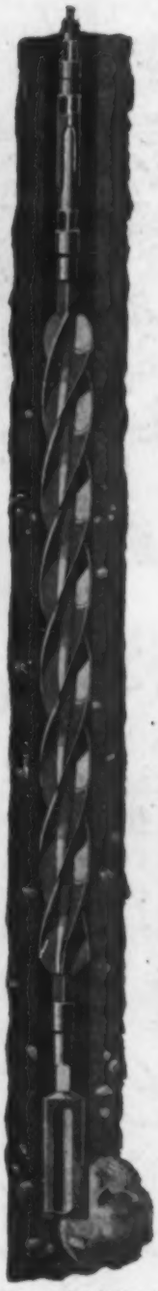
Wear on equipment increased when wells are out of line—Some methods for meeting problem

By F. G. D. Muller

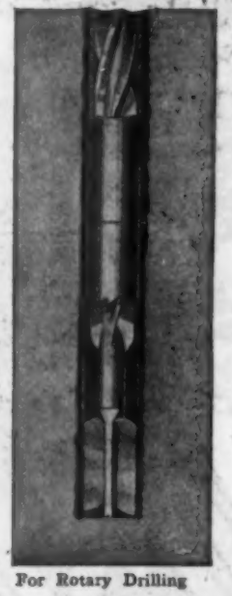
IN DRILLING wells of great depth, it is not always possible to drill a true and perpendicular hole. A... subsequently discov... of crooked holes can be prevented. In order to drill a straight hole, one ought to be able to tell of course when

Crooked Holes Used to be a Misfortune

Now They're *Inexcusable!*



For Cable-Tool Drilling



For Rotary Drilling

There's good advice in the article shown above for operators unfortunate enough to have crooked holes on their hands.

There's even better advice in this advertisement, though, for operators who wish to protect themselves against crooked holes in the future.

We do not ask you to accept our say-so in the statement that the SPIRAL STEM (for cable-tool drilling) and the SPIRAL ROTARY DRILL COLLAR (for rotary drilling) will prevent crooked holes.

We submit instead the statement of drillers who have actually used these tools and therefore know what they're talking about.

"I find it impossible to get a crooked hole," says W. A. Delaney. "Crooked holes will be unknown when your stem is generally used," says Ellis Green. "I believe it almost impossible to get a bad hole," says S. P. Eshelman. And these are just a few.

In addition to preventing crooked holes, the SPIRAL tools offer other advantages of almost equal importance which we will gladly explain on request. *Both tools are now made of FORGED STEEL.*

As an investment in good business, we do not know of anything better that you could do than to write today for first-hand information on two tools that are chalking up new records every day for the drillers who are using them.

TITUSVILLE FORGE COMPANY

TITUSVILLE, PA.

TIFOCO products are handled in the Mid-Continent and Coastal Fields by the Continental Supply Co.; for export, by the Continental Well Supply Co., 2 Rector St., New York. Special Mid-Continent Representative: L. S. Allen. Special Colorado and Wyoming Representative: L. E. Nebergall, 1375 Lincoln St., Denver, Colo.

These articles are fully covered by patents and any infringements will be vigorously prosecuted.

SPIRAL STEM

SPIRAL ROTARY DRILL COLLAR

Imitation is the sincerest form of flattery - - -

- - - it is significant to note that Dunn Tongs have been copied quite extensively in various attempts to make something just as good.

Type "CX"

Carried in Stock By

National Supply Companies

Say you saw it in The Oil Weekly

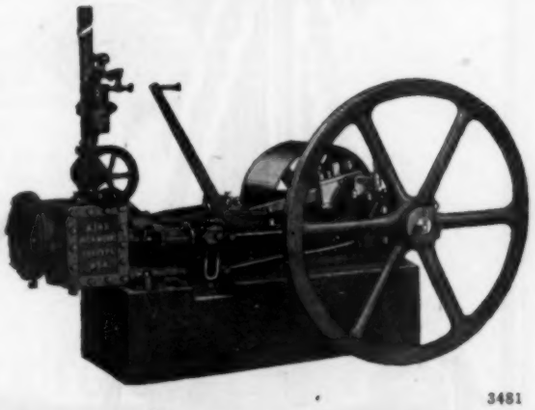
The Ajax
Sight Feed Lubricator

fits on the engine and has been especially designed for lubricating steam engines and pumps. The condensing chamber and sight feed are of brass, and the upper tail pipe which delivers the oil extends to the center of the steam line, so that the oil drops in the steam instead of running down the side of the pipe.

The lubricator is attached to the steam line, the live steam passing in through the valve at the top condenses in the condensing chamber and sinks to the bottom as water, floating the oil. The pressure forces the oil, a drop at a time, through the glass sight feed into the steam line and thence into the engine lubricating the cylinder and piston.

When the oil is exhausted as can be readily determined by the sight feed, the valve connecting the lubricator with the steam line is closed and the water can be drained from the reservoir through a petcock in the bottom. The reservoir may then be refilled and the same operation repeated.

Ajax owners are fast realizing the advantages derived from using the sight feed lubricator. Be sure to insist upon genuine replacement parts when making repairs or when overhauling the lubricator or other parts of your Ajax Engine.



AJAX ENGINES

Reg. U. S. Pat. Off.

Distributed by
The National Supply Companies
in every oil field

Manufactured by
Ajax Iron Works
Corry, Pa.

3481

AJAX DRILLING ENGINES
Insist on Genuine Ajax Replacement Parts

Books for Field Men

Petroleum Production Methods

By John R. Suman. Third Edition, completely revised and brought down to date. Off the press October 15, 1923. Eighty pages of new material added. Among many others the following new features are especially worth noting:

Improved Rotary Drilling Methods —Core Drilling, latest "Dope" brought down to date. Mud-Laden Fluid — Newest features fully discussed. Latest Drilling Devices fully described—The "Make and Break" rotary. Collapsible bits and other new bits. Weight indicators.

Diamond Drilling for Oil—Exploration and Exploitation. What do you know about this newest device being used by Oil Companies all over the world? This system fully described and illustrated. Cost of Power for Drilling Various Methods. Latest Cost Data on drilling in various fields. Temperature of Drill Holes. Swabbing. Evaporation Losses on stored oil and how to stop them. Heat Treatment for Drill Bits. Latest "A. P. I." Tables for correcting gravity readings according to temperature reading. These tables are absolutely new and have not been published elsewhere to date.

Chapter Headings: Drilling Methods—All systems fully described. Method of shutting off water—full description of cementing methods and use of Packers. Operation of Properties and handling of production. Treating Emulsions—a very important subject thoroughly discussed. The use of electric power; this newest kind of power for oil field use thoroughly described in all of its various phases. Pipe Line—construction and operation, friction losses, etc. Tanks—construction of, preparation of gauging tables and pervention of evaporation losses. Tables and useful information condensed. Information on various subjects, which oil men are constantly needing for reference. 650 pages, fully illustrated. Cloth.

Price, postpaid $6.00

Deep Well Drilling

By W. H. Jeffery. A comprehensive hand book covering in detail modern practices of well drilling by both the standard or cable tools and the hydraulic rotary systems.

The following synopsis will indicate how thoroughly the author has covered the subject.

I. Geology—bibliography of publications of the oil and gas geology of North America —chart showing productive sands. II. Derricks, and drawings, with directions and specifications for building; specifications for outfits for drilling wells from 600 feet to 7500 feet in depth. III. Cable or standard system of drilling, including rigging up, spudding, driving pipe, drilling, underreaming and bit dressing. IV. Fishing for lost tools. V. Rotary system of drilling, including specifications for derricks, drilling, handling pipe, fishing, and specifications for drilling outfits. VI. Drilling by the combination cable and rotary system. VII Drilling by the hydraulic circulating system. Use of mud laden fluid. VIII Casing methods, casing used in various fields, collapsing pressures and safe lengths of string, casing equipment. IX Use of packers. X. Cementing casing; shutting off bottom water. XI Well shooting. XII. Finishing and shutting in oil and gas wells, setting screens and liners and washing rotary drilled wells, pumping methods. XIII Costs of drilling in various localities. XIV Strength of materials, including safe working loads for derricks, casing equipment, factors of safety, etc. XV General information relating to drilling, oil, gas, steam, lubrication, electricity, etc., including tables of drilling equipment. XVI State laws relating to drilling, abandoning, plugging oil and gas wells and to oil and gas. 518 pages, 240 illustrations.

Price, postpaid $5.00

Petroleum Production Engineering

By Lester C. Uren, Associate Professor of Petroleum Engineering, University of California.

Condensed outline of contents: I Petroleum Exploration and prospecting. II Acquisition of Title to Oil Lands. III Maps and Sections; Graphic Logs and Peg Models. IV Developing the Field. V Churn Drilling Methods. VI Rotary Drilling Methods. VII Casing, Casing Appliances and Casing Methods. VIII Fishing tools and methods. IX Oil field Hydrology; Exclusion of Water from Oil and Gas wells. X Control of high-pressure wells. XI Finishing the well. XII Production methods: Removal of oil from wells. XIII Production methods: Management of wells to secure maximum production. XIV Power for oil field purposes. XV Gathering, local storage and shipping of petroleum; gaging, sampling and testing. XVI Preliminary refining of petroleum; dehydrating and separation of sand and gas. XVII Storage. XVIII Transportation. XIX Auxilliary plants and departments. XX Office methods and records. 653 pages, 6x9, illustrated.

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P. O. Box 1307, Houston Texas

The Man Who "Knows"

Brings Home the Bacon

Reading The OIL WEEKLY every week will increase your knowledge of your business, broaden your viewpoint — and enable you to bring home the bacon. Try it.

Use the Coupon—NOW!

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THE OIL WEEKLY

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You will note that in both A and B types of GUIBERSON Tubing Catcher the weight which operates the catcher has real "heft".

There is an important reason for this. The weight is the catcher's "motor". Its inertia causes the catcher to operate, and this inertia is in direct proportion to mass. A light weight will have insufficient inertia to overcome an ordinary degree of sanding up or clogging by paraffin. No trouble from these causes will be experienced with GUIBERSON Catchers.

Our very small sizes are made in Type A only, which has a heavier weight in proportion. In the larger sizes we recommend Type B, though either type is absolutely reliable in these sizes.

Fully patented.

Stocked by all leading supply houses.

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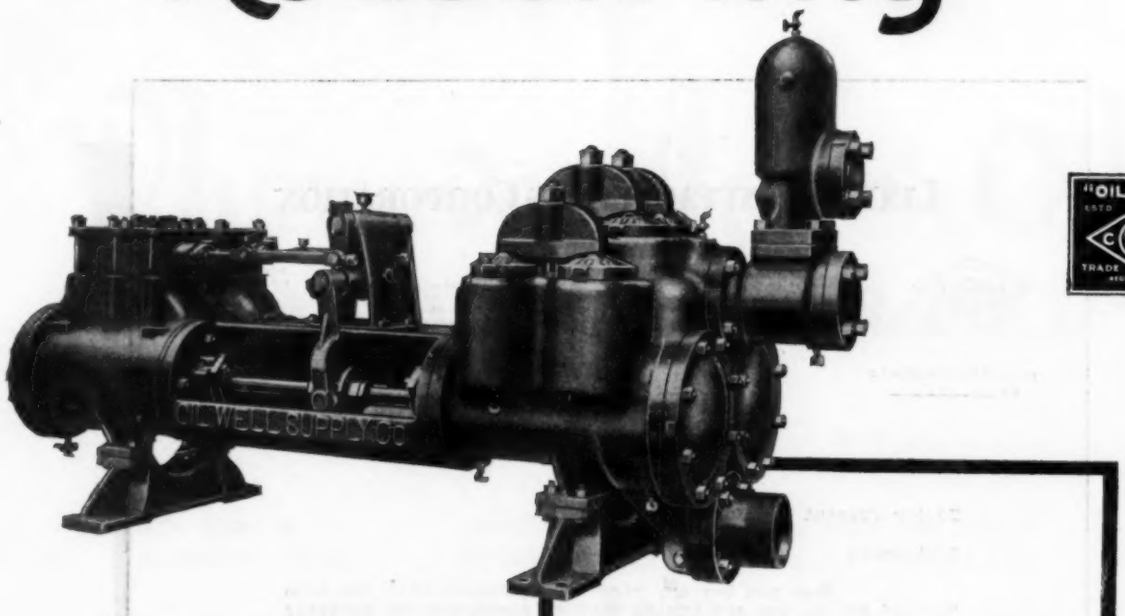
GUIBERSON

BETTER BE SAFE THAN SORRY

Say you saw it in The Oil Weekly

The Reason Why



"OILWELL" ESTD 1862 TRADE MARK REGISTERED

More "MUD HOG" PUMPS are used in the oil fields than any other make.

Actual photograph of an "Oilwell" power driven "Mud Hog" Pump in operation in the Texas field.

IMPORTANT

Be sure you get genuine parts for "Oilwell" Mud Hog pumps.

Genuine Mud Hog pumps and parts are made only by the Oil Well Supply Co. and distributed through 100 "Oilwell" Branches.

Purchase all parts from "Oilwell" Branches and avoid imitations.

"Oilwell" Mud Hog slush pumps have distinct advantages over the ordinary pump, which account for their supremacy in the Industry.

(a) All glands have oil pockets for lubricating the packing.
(b) Liners are easily removed and replaced by ones of different dimensions, so as to give a large range of pressures and volumes.
(c) Can be used for pumping oil, in which case brass valves will be furnished.
(d) Sold with or without air chambers. Air chambers have removable screens, which facilitate cleaning.
(e) In power-driven pumps, crosshead wear is quickly taken up by means of shims.
(f) Three main crankshaft bearings on power drive pumps insure great rigidity.

"Oilwell" Mud Hogs will take care of 500 lbs. working pressure; the Giant Mud Hog, 1000 lbs.

Play safe!—Use a pump that has been thoroughly tested by years of experience and has the backing of the world's largest makers of Oil Field Equipment.

Write for "Oilwell" Mud Hog Bulletins Nos. 43 and 46, or get copies at any of our 100 Branches.

Oil Well Supply Company
Pittsburgh, U. S. A.
New York San Francisco Los Angeles
London Tampico

OILWELL SUPPLY CO
World's Largest Manufacturers of Oil Field Equipment

Say you saw it in The Oil Weekly

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WORKS
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WESTERN UNION
A.B.C. 5TH EDITION
LIEBER'S
BENTLEY'S
LUCEY SPECIAL
CABLE ADDRESS
"LUCEOIL"

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CHATTANOOGA, TENN.

To our Present and Future Friends:

Gentlemen:

When you buy any piece of equipment with the name "LUCEY" on it, you are buying what we sincerely and honestly believe to be the best that can be made.

Every man in the LUCEY Organization is striving but for one objective - to make LUCEY products, whether they be bits, engines or what not - the finest of their kind ; dependable, well designed and well made.

Our engineers, foremen and workmen are all skilled men with years of experience in the manufacture of oil field equipment. The name "LUCEY" on our products is your guarantee of pleasing performance and long satisfying wear.

We are not standing still - we are going ahead rapidly - new channels of distribution are being opened up; our plants at Chattanooga and Houston are working hard - our engineers are progressive.

This Company solicits your business;welcomes your inquiries and will strive hard for your good-will.

Yours very truly,

LUCEY MANUFACTURING CORPORATION

President

FES/W

THE NAME IS A LUCEY GUARANTEE

Wherever there's Oil

YOU CAN BUY LUCEY PRODUCTS

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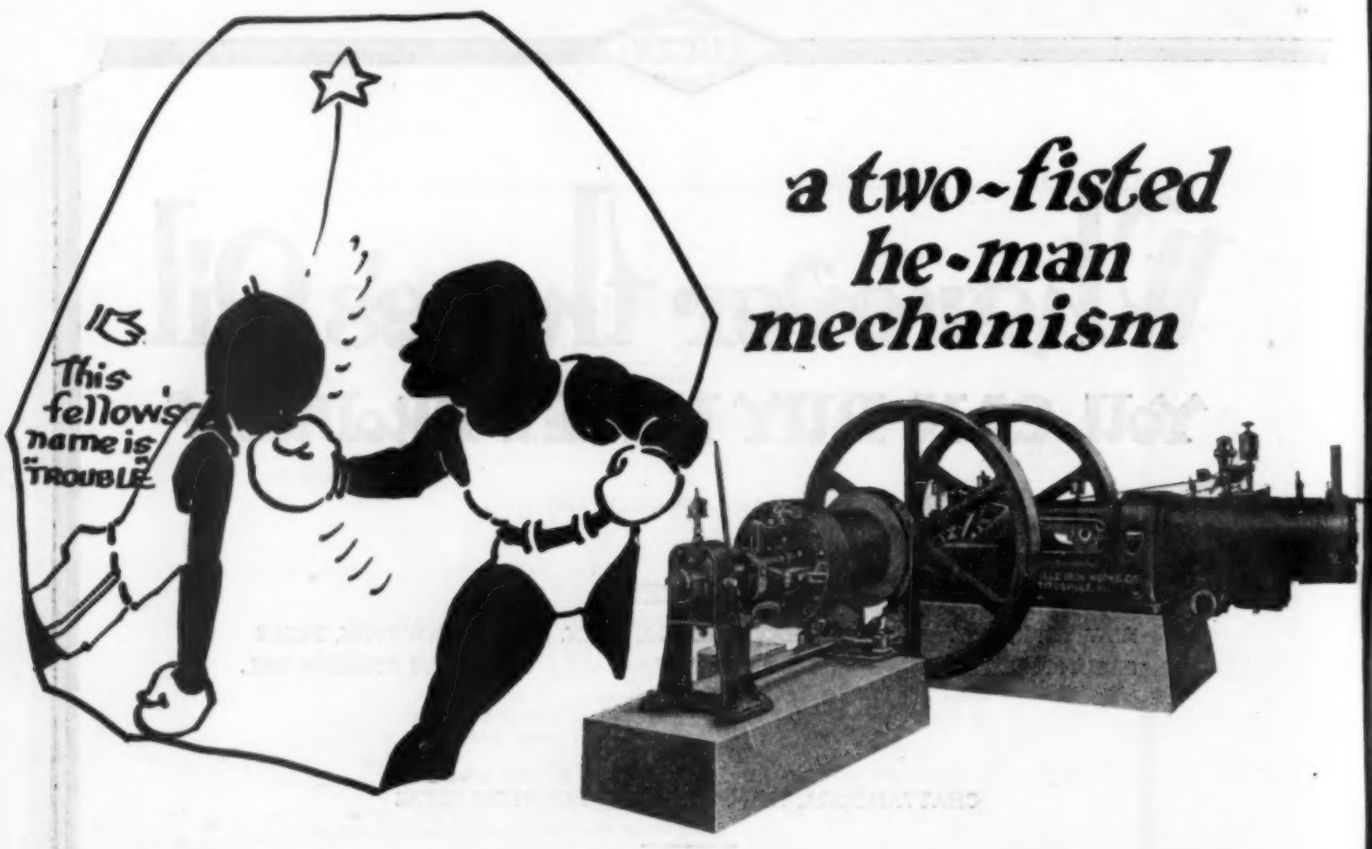
and

"Wherever there's Oil"



a two-fisted he-man mechanism

TITUSVILLE TICO GAS ENGINES

There is nothing weak kneed about the TICO GAS ENGINE. If it were human you would say that it had "plenty of hair on its chest." TICO Gas Engines are made to work—first and last.

This well balanced and powerful engine with pleasing symmetry of lines instantly meets the approval of the operator of a TICO. It is simple in construction and design—the simplicity that makes for genuine efficiency.

You should be familiar with the new "TICO"—Let us send you the facts.

The TITUSVILLE IRON WORKS Co.
TITUSVILLE - PENNA.

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Oil Country Boilers
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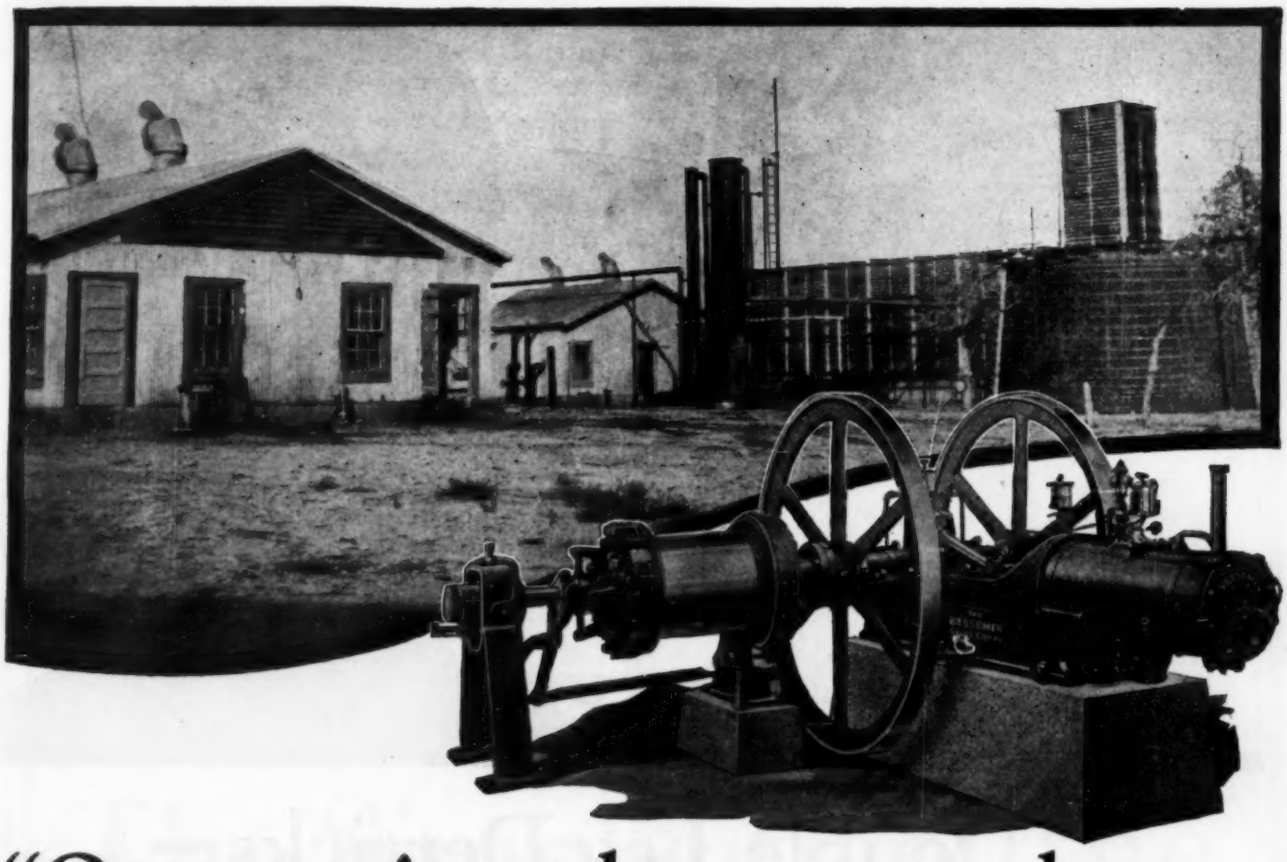
Say you saw it in The Oil Weekly



"Our engines have sure been 'balling the Jack'!"

said a typical Bessemer operator in Arkansas the other day to a tenderfoot visitor from the East and the eastern man had to ask further questions in order to learn that *'balling the Jack'* is a term of high praise.

The comment is typical.

No matter into what oil field you go you will find Bessemer operators praising them in the terms of each particular locality, all confirming our repeated statement that—

"You buy the best when you buy the Bessemer"

THE BESSEMER GAS ENGINE COMPANY
62 York Street ⁂ ⁂ Grove City, Pa.

BESSEMER

BESSEMER OIL FIELD ENGINES – COMPRESSORS – VACUUM PUMPS – ROLLER PUMPING POWERS

Say you saw it in The Oil Weekly

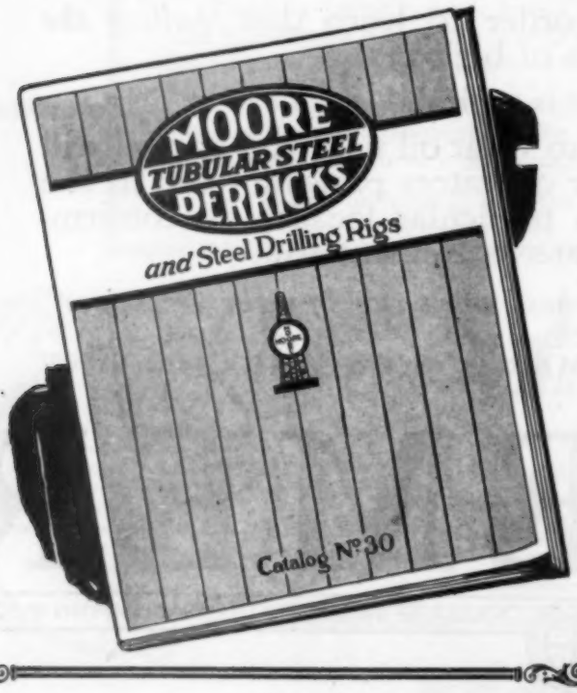
Double Leg Derricks—
how to make them

A PRACTICE which is gaining favor in many fields is to buy a light Moore derrick with a set of reinforcing legs which are used while drilling is going on. A set of special clamps are furnished with the derrick for this purpose. The strength of the derrick may easily be doubled by the use of these reinforcing legs.

When drilling is completed, the reinforcing legs and clamps are removed and used elsewhere, and the light single-leg derrick is left over the well for pumping and cleaning out. Later, if it is decided to drill deeper, the reinforcing legs may again be attached.

The arrangement is convenient and economical as one set of reinforcing legs with clamps may be used time and again, for drilling an indefinite number of wells.

This and much other information about steel derricks and steel rigs, is contained in the new Moore Catalog just out.



72-Page Catalog Free!

Profusely illustrated. Most complete book on steel derricks and drilling rigs yet published. Free for the asking to operators and drillers.

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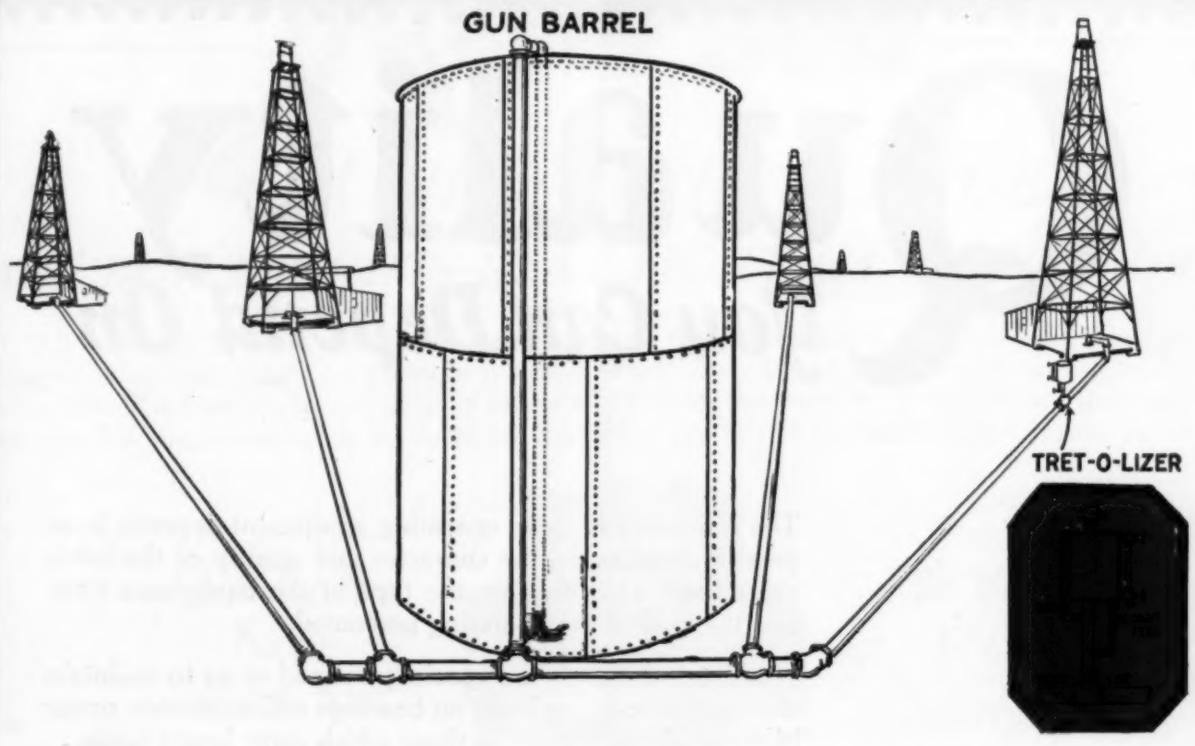


The Simplicity of the Tret-O-Lite Process

Four factors explain the marked preference which is being accorded the TRET-O-LITE process, over all other methods of treating petroleum emulsions. They are:

1. Negligible installation cost
2. Low treating cost
3. Simplicity
4. Thoroughness

The simplicity of the process is indicated by the illustration above. In a number of cases a very small quantity of TRET-O-LITE is merely added continuously to the emulsion as it flows from one well, by means of a Tret-O-Lizer.. This emulsion mixes with emulsion from other wells, in gun barrel, causing the Tret-O-Lite to be thoroughly mixed into the emulsion from all wells. In some cases it proves advisable to also heat the emulsion, but not in all. Various types of TRET-O-LITE plant represent merely different methods of accomplishing this simple mixing.

The moment the TRET-O-LITE becomes mixed with the emulsion it begins to attack and neutralize the emulsifying agent which has been holding the oil and water in emulsion. When this work has been completed oil and water will be found to have completely separated by gravity.

We recommend "line plants" for handling a continuous flow of emulsion from a well, and "tank plants" for treating limited quantities of fresh emulsion or tank bottoms, at intervals. We have field experts within convenient reach of every field. If you are troubled with cut oil, wire or write us and we will have our nearest representative call on you. A test can be made on your emulsion to show you exactly what TRET-O-LITE will do, before you undertake any expense. Address Wm. S. Barnickel & Co., Webster Groves, St. Louis County, Mo.

Quality
You Can Depend On

The efficiency of your operating equipment depends in as great a measure on the character and quality of the lubricants used, as it does on the type of the equipment itself and the skill of the operating personnel.

Humble Lubricants are specially refined so as to maintain the right lubricating body on bearings which operate under high speeds, as well as on those which carry heavy loads.

Humble Oils retain the proper viscosity and hold their fluid film at the operating temperatures produced by high speeds, and they have sufficient "oiliness" to leave a semi-plastic, absorbed film which protects the bearing surfaces from abrasion during periods of partial lubrication, especially bearings like those of line shafts, countershafts and machine tools, which are started and stopped frequently and are often subjected to peak loads.

HUMBLE OIL & REFINING CO. HUMBLE OILS HOUSTON, TEXAS

This "oiliness" quality of Humble Oils, and their ability to hold an absorbed film, during periods of partial lubrication, protect against abrasion, overheating, and bearing failures.

There is an Humble Oil which is specially prepared for every bearing need, whether in your plant, in your trucks, or in your automobile.

Write us for samples and prices.

Humble Oil & Refining Co.
HOUSTON, TEXAS

Producers ~ Pipe Lines ~ Refiners ~ Marketers

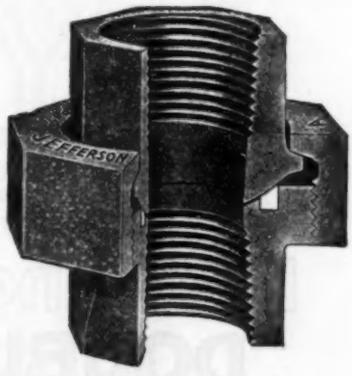
Jefferson

UNIONS AND FLANGES

ARE BUILT RIGHT—STAY TIGHT and SAVE LABOR

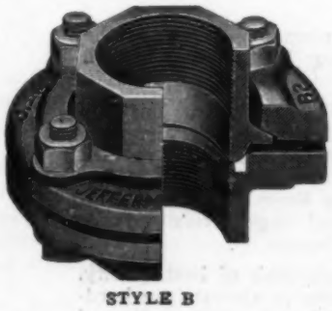
All Jefferson Unions and Flanges are made of the highest grade material which can be obtained and under the best possible working conditions. Particular attention is paid to the Brass Seat Ring which is located in a recess away from the runway of the fitting, thus preventing this ring from being loosened by the difference in the expansion and contraction of

Look for the Name on the Nut



Be Sure It's a Jefferson

the iron and brass and also from being dislodged no matter how far the pipe may be screwed into the fitting. These parts are ground together and kept in pairs; thus you are assured of tight fitting unions and flanges.



STYLE B

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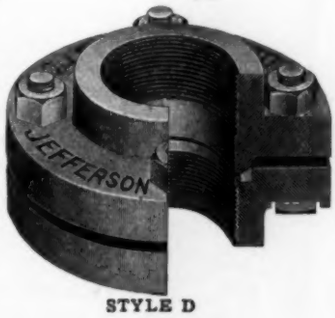

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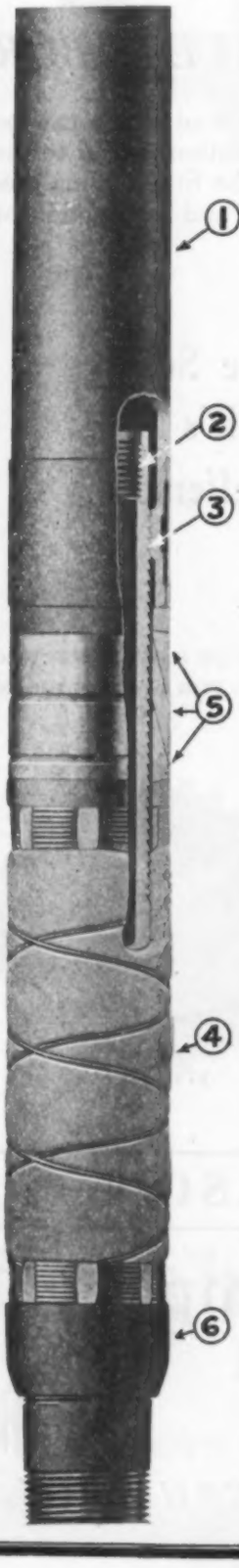

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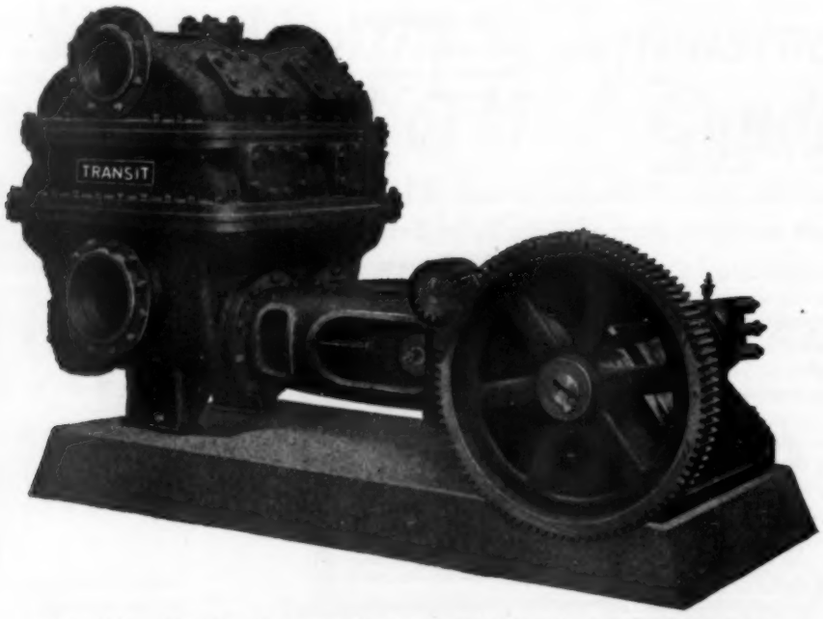

Fig. 389. 12 x 12 in. Separate Chest Type TRANSIT Duplex Piston Pump for low pressure work. 10 in. suction and 8 in. discharge connections

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Crude Market Undisturbed During Week

Continued increase in Oklahoma may force further cut; stronger in North Texas area

Houston, Texas, August 20.—There is little change in the crude oil situation in either Oklahoma, Kansas or Texas, except that in the latter state the situation has been strengthened some by a healthy movement of gasoline. Recovery of crude in Oklahoma is now only about 4000 barrels per day under the peak recovery of last year. Indications are that that peak of 530,000 barrels daily will be reached shortly and possibly passed.

Kansas does not show an appreciable increase. An interesting development in the Sun Flower state is the fact that nine wells drilling in the Russell County field have passed the depth at which the Oswald sand was encountered in the field's discovery well. The Russell County field was calculated to show a big spurt in production with the completion of these wells in the Oswald sand, but it may be that a revision will have to be made. The Coleman field in Montgomery County in Southern Kansas is beginning to attract attention away from the Russell County activities.

Settlement of the question of payment to royalty owners during the proration period has been effected by the Prairie and Sinclair companies who have announced their arrangements. Sinclair will pay all royalties on departmental leases and one-half the royalty on commercial leases, running the other half to storage. Prairie is paying all royalty on both departmental and commercial leases.

North Texas Tone Improved

Actual sales made during the past week by North Texas refiners to both domestic and export buyers of gasoline for delivery over the balance of August caused prices on refined products to strengthen somewhat, and reflected a more favorable tone to the crude market, which was generally believed to be headed for a lower price level prior to this buying flurry. This movement of gasoline is probably due to heavy inroads made into stocks held by jobbers throughout the country in recent weeks, while the return of export buyers to the Mid-Continent refined market is accepted as indications that the European settlement is already having its effect towards the restoration of a normal foreign gasoline demand.

Although spot crude in North Texas is still plentiful, the prices are almost certain to show some strength when the refiners begin increasing their still runs to make deliveries on gasoline orders now on hand, while in the meantime contracts for daily crude runs over a long period are being solicited by both major and independent buyers.

Prospects for further declines in crude production in the high gravity fields by reason of the curtailment of drilling is having a tendency to cause buyers to seek a dependable source of supply.

The Humble Pipe Line Company is engaged in tying up about 4000 barrels of daily runs in the Wichita-Archer County district in advance of the completion of its pipe line to this area, while the Prairie Pipe Line Company is also seeking long time contracts. The Texhoma Oil and Refining Company, which has a pipe line system serving most of the pools in Archer County, announced last week that, effective August 15, it would buy in all the storage oil held in its lines by producers at the Magnolia's posted price.

The Galena Signal Oil Company, which operates

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The OIL WEEKLY wants only such subscribers as are engaged in the oil producing or pipe line business, or sub-branches of the producing and pipe line business. It has no desire for investor circulation, and it reserves the right and will exercise the right to reject subscriptions coming from persons whose interest in the oil industry is through the purchase of oil stock.

R. L. DUDLEY, Publisher.

a large refinery on the Houston Ship Channel, is contracting for crude in the Richland and Currie fields in East Central Texas for a period of one year at the highest posted price paid by the major companies, and is also soliciting similar contracts in the Corsicana-Powell field. This crude is gathered by the Pure Oil Pipe Line Company and common carriered to Humble, where deliveries are to be made to the Galena Signal Company's line.

In order to handle this common carrier business the Pure Oil Pipe Line Company is adding about 23 miles of 4 and 6-inch lines to its present gathering and distributing system.

Garland Kent, an oil producer in the Corsicana-Powell field, has acquired a small skimming plant from the H. H. Cross Refining Company at Angus, near the field, and is to begin running his own production through this plant.

California

The movement of gasoline from California ports recently has brought about a slightly better feeling in marketing circles, although there is still a little distress gasoline on the market. But the situation is thought to have changed slightly for the better in the past two weeks.

There were no outstanding developments the past week worthy of note. It is understood that refineries are operating at a rate less than during June, and a few small plants have closed down. Crude is a little harder to get on the part of the small plants without any means of moving it from the fields. There is no disposition on the part of purchasing companies not to make connections at new wells, but rather there is a real willingness to make the connections.

Fuel oil continues strong as does natural gasoline.

The feeling in the East is better now that the Standard Oil Company (New Jersey) has disregarded the example set by the Standard Oil Company (Kansas) and the Atlantic Refining Company, and has declared regular dividends. The Standard of Kansas has discontinued the payment of dividends on common stock over the remainder of the year and the Atlantic Refining Company passed its last dividend payment in order to conserve its resources. The action of the New Jersey Company has imparted a better feeling to the Eastern market.

With a mounting production another crude price cut would appear to be impending.

Colorado School of Mines Offers Petroleum Degree

Golden, Colo., Aug. 19.—A very thorough and complete course in Petroleum Engineering is offered at the Colorado School of Mines, at Golden, Colorado. The curriculum covers a period of four years and leads to the degree of petroleum engineering (P.E.) upon the satisfactory completion of the work prescribed. The object of this course it to give the student a comprehensive, practical knowledge covering production, transportation and refining in the petroleum industry.

The work given in the freshman and sophomore years is basic and is the same as is required of all engineering students. In the junior and senior years there are certain prescribed courses in English, Chemistry, Geology and Mathematics besides the required majors in Petroleum.

The following lecture and laboratory courses in petroleum are given in the last two years.

Oil Well Drilling and Gathering Systems. Oil Production. Transportation. Petroleum Refining. Distribution of Petroleum Products. Casing Head Gasoline Plants and Natural Gas. Organization and Functions of Oil Companies. Petroleum Problems. Research Work.

Nicholas Proposes Oil Exchange as Stabilizer

Tulsa, Okla., Aug. 18.—While not exciting extended comment among leaders in the industry, the latest proposal of L. V. Nicholas of Chicago, president of the National Petroleum Marketers Association, for the formation of an open crude market similar to the stock exchange or wheat pit so as to soundly establish crude oil values, is the subject of some consideration. The plan of Mr. Nicholas would provide the means for buying and selling pipe line credit balances as well as all other petroleum products.

According to Mr. Nicholas, this would make the pipe line companies and their storage facilities common carrier in fact as well as in name. "This would settle the matter of crude values and would establish throughout the entire industry the unfettered workings of the law of supply and demand," Mr. Nicholas said.

Mr. Nicholas, under this plan, would place such an oil exchange in charge of a board of governors formed by the oil industry itself.

Undoubtedly, the chief ends which Mr. Nicholas would hope to serve by his plan would be the stabilization of prices and the establishment and maintenance of a sound price structure, both ends very desirable ones.

Burbank Pays Indian Owners $75,455,603 in Four Years

Washington, D. C., August 19.—A total of 66,839,911 barrels of oil were taken out of the Burbank field on the Osage Indian Reservation between the bringing in of the first well in May, 1920, and June 30, last, it is reported by the department of the interior. A total of 1335 wells have been drilled in the field, which covers about 19,000 acres, only 12 of which proved dry.

Members of the Osage tribe up to June 30 have realized $75,455,603 from products of the field, of which $53,123,000 was paid by operators as bonuses for leases, and $22,322,603 was royalties. The highest bonus paid was $1,990,000 for a lease on a tract of 160 acres, last March, but 21 quarter-sections in the field have been sold for bonuses aggregating over a million dollars each.

At the presnt time there are about 9075 producing wells and 750 producing gas wells on the Osage reservation, with a monthly production of oil of approximately 3,500,000 barrels, and royalties from oil and gas totaling about $1,350,000 a month.

Pure Oil Pipe Line Company Increases Carrier Business

Corsicana, Texas, Aug. 18.—The Pure Oil Pipe Line Company has begun work on the construction of a second four-inch pipe line from the Richland field to Currie, a distance of five and two-tenths miles, and will also add eight miles of six-inch pipe to its present line connecting the Currie field to Mexia. The new six-inch pipe being added between Currie and Mexia will replace a section of four-inch, and when the former is strung the company will have a solid six-inch line between these two points.

Pure has developed considerable common carrier business in the Richland and Currie fields recently, and during the first ten days in August is credited with having moved more than 82,000 barrels from the Richland pool. Pure has made arrangements to handle all the crude purchased and produced by the Galena-Signal Oil Company in the East Central Texas district, and is constructing ten miles of six-inch pipe from its Huffman pump station to Humble, where deliveries can be made to Galena-Signal's pipe line serving the refinery operated at Houston by Galena-Signal Oil Company. Galena-Signal is contracting for crude in the Richland and Currie fields for a period of one year at the highest posted price, and is also seeking similar contracts in the Corsicana-Powell field, but is more partial to the former two fields owing to the crude being of a better grade and offering a higher gasoline yield.

Los Angeles Shipments to East Coast Show Decline

Los Angeles, Calif., Aug. 16.—Shipments of crude to Atlantic domestic ports the past week out of Los Angeles harbor show a large decline when compared with past several weeks, but during the week ending Friday night, ten cargoes of crude went to Avon, Martinez and Richmond on the Pacific domestic coast, to refineries operated by The Associated, Shell and Standard. Movement to these plants from Los Angeles recently has been very slow.

To Pacific domestic ports, tankers the past week carried 2415 barrels of kerosene, 2414 barrels of distillate and 12,300 barrels of Deisel engine oil. Thirty tankers left the harbor the past week against 28 the previous week. Four tankers of fuel moved in Japanese tankers for Japanese navy.

The record the past two weeks follows:

	Last Week	Prev. Week
Tankers departed	30	28
Total crude moved	1,062,943	1,144,556
Total fuel moved	589,597	411,895
Total gasoline	245,256	337,942
Total kerosene	2,415	58,627
Crude Pacific Domestic	648,773	190,308
Fuel, Pacific Domestic	120,077	279,695
Gasoline, Pacific Domestic	40,286	53,767
Crude, Atlantic Domestic	251,170	859,248
Gasoline, Atlantic Domestic	77,031	136,077
Crude, Foreign	127,000	95,000
Fuel, Foreign	248,447	132,200
Gasoline, Foreign	127,939	148,098

Proper Care and Manufacture of Chains

Mechanical transmission of power through chains for oil field work important subject

By Charles R. Weiss,
Chief Engineer, Ewart Plant, Link-Belt Company, Indianapolis, Indiana

OBTAINING a high degree of efficiency with drive chains has been a constant problem to the oil well drilling industry. Recognizing the importance of power transmission chain drives to the industry in general, Captain J. F. Lucey, the national chairman of the committee of standardization of rotary drilling equipment of the American Petroleum Institute, has requested the writer to prepare two articles; one covering "Chains" and the other covering "Sprockets." This is the first of the series of two. The second article on "Sprockets" will follow in a subsequent issue of this journal.

Back in the days when cable tool or rotary drilling was an "Infant Industry" and wells were commonly of a shallow depth, the drive chains were of the detachable malleable iron type known as No. 103 and No. 124. These chains possessed a pitch of 3,075 inches and 4.063 inches respectively.

However, the constantly increasing depth of wells and the high speed at which the wells were drilled, called for heavier duty, more ruggedly built with steel roller chains, the latter having a much greater strength and more scientific design. These steel roller chains were made on the same pitch as the former malleable chain, that they might operate on the old type, 103 and 124 sprokets.

The coordination of the first three elements named belongs to the chain manufacturer.

Obviously, the chain maker must design his product to obtain a proper strength relationship of the component parts. To obtain the strength relationship, the materials must be properly selected and carefully heat-treated. A chain so designed and fabricated will always break under test at approximately the same strength.

The pounds pull in a chain to get the required amount of horsepower, should be much lower than the breaking strength of the chain. The breaking strength, divided by the pulling load, is termed the "safety factor." As chain speeds are increased, the safety factor should also be increased. For the continuous transmission of power the safety factors should be more liberal in the drives which are to be infrequently operated. Every chain manufacturer is constantly striving to bring about and maintain such conditions.

Sprocket wheels with but few teeth are more severe on a chain than those with larger numbers of teeth. All things being equal, therefore, a chain running on a very small wheel will not last as long nor give the same degree of efficiency as a chain running on comparatively large wheels.

Care of the chain by the user is divided into two factors: manner in which it is applied and the care given to the mechanism during the operation. The first principle of chain installation is the assurance that the sprocket wheels are in line on the shafts and that the shafts themselves are parallel and level with regard to each other. The application of drive chains where the sprockets are not exactly in line on the shaft will tend to a side pull which makes for greater tooth strain, excessive wear on both chain and sprocket and a false consumption of power. Shafts not accurately leveled, or which are out of parallel, will make for similar conditions—excessive wear and possibly delay being naturally resultant.

In like measure, the construction should be as rigid as conditions will permit. Weak or inadequate construction will result in ultimate breakdown and expensive delays.

With regard to care afforded the chain during operation, that is largely a matter of lubrication. It is trite to say that where steel meets steel or where friction occurs, there will be wear. The heavy, high-speed loads imposed on power transmission chains are carried through many component metal parts.

Naturally, if the lubrication is insufficient, there is a tendency towards galling, which results in rapid wear and consequent stretch.

Drive chains should be kept clean at all times and should be lubricated with oil comparable to a heavy engine grade. Particularly is it necessary to insure the complete lubrication of each joint.

As the endurance of a chain depends largely on the size of the sprockets used, longer life can be obtained from larger sprockets. Where possible, a sprocket containing but few teeth should be avoided. Furthermore, longer chain life and longer sprocket life can be obtained by the use of tooth forms of an improved type.

The sprocket tooth forms to be discussed next month are, however, more a matter of evolution than revolution. Ever since the early days of the chain business and almost since the inception of chain practice, the teeth of sprocket wheels have been shaped either by rule-of-thumb or according to erroneous ideas regarding chain action. The latter has prevailed so that the sprocket tooth contour is something similar to a gear tooth, and although this idea is now many years old, sprocket drive wheels are still being built in accordance with that latter—that the chain links always lie down at the root circle at the base of the tooth and do not ride up on the flanks of the teeth; that to accommodate the shifting of a stretched chain on the root circle, clearance is needed between the teeth; that the larger the wheel the greater the clearance and the thinner the teetn. The imminent need of continuous opration and more economical equipment has resulted in a distinctly unique tooth form for drive wheels and this subject will be treated at some length in our next article.

HOW?

Perhaps it's that new stunt you've found for pulling rods, perhaps it's that scheme you have for oiling the power; perhaps it's some method you've found to get longer wear out of the belt; perhaps it's your way of splicing the wire line.

Whatever it is, why not make it easy on the other fellow by telling him.

That's where The OIL WEEKLY comes in. You tell us and we'll tell him. Write on any sort of paper. Use pencil, ink or typewriter. Just be sure your name and address are at the top of the first page. Send pictures, drawings or pencil sketches.

For each New Wrinkle, The OIL WEEKLY will pay at least $5. If it is worth more, the check will be larger. Checks will be mailed on acceptance.

Tell how you do an old stunt in a new way. Tell it in writing just as you would tell a friend on the next lease. Then put it in an envelope and mail it to The OIL WEEKLY, P. O. Box 1307, Houston, Texas.

D. G. Lorraine, head of the Lorraine Corporation, returned to headquarters last week after several weeks absence looking over the Mountain States oil fields and taking a few days rest. He expects to return to Colorado and Wyoming again later in the month on a business mission.

Similarity of Structures in Mexia Fault Zone

Irregular well logs can be used for practical interpretation of subsurface conditions

By Frederic H. Lahee

THE Mexia oil field, in Limestone County, Texas, (see Fig. 1), is closely associated with a fault which trends a few degrees east of north and has a displacement of between 200 and 400 feet, with downthrow on the west. Accompanying this major fault are other minor slips, some roughly parallel to the main break, and others transverse to it. These faults belong to the so-called Mexia Fault Zone, a belt of fracturing which has been traced in its characteristic features southward to near Kosse, 15 miles south of Groesbeck, in southern Limestone County, and northward at least as far as the Trinity River at the east border of Navarro County, and possibly as far north as Hunt and Hopkins Counties.[1]

The Balcones Fault Zone, from 30 to 40 miles west of the Mexia Fault Zone, differs from the latter in that its principal displacement is a downthrow on the east. In this respect it is exactly the opposite of the Mexia displacement. Between these two zones of major faulting lies a great downdropped block, or graben, which is broken by numerous minor faults.

Oil Fields Associated with the Mexia Fault Zone

In speaking of oil fields associated with the Mexia Fault Zone, we refer here only to those producing from the Woodbine sand. In this category belong the Mexia, Currie, Old Richland or Seay-Cranfill, Powell, and New Richland fields, named in order of their discovery (see Fig. 1). Subsequent development may prove that the gas found in the Boyd Oil Company's Connor well, north of Kerens, is coming from another pool in the same fault zone.

Mexia Field

In October, 1921, the Humphreys Oil Company, drilling on the Mexia anticline, as it was known at that time,[2] under the advice of F. Julius Fohs, discovered oil at a depth of approximately 3000 feet in the Woodbine sand near the base of the Upper Cretaceous.[3] The first few locations were made with the object of testing this fold. As other wells were drilled, the fact gradually became evident that the oil in the Woodbine sand here owed its accumulation not so much to a simple anticline as to a major fault with attendant drag. The logs of wells have shown that the western edge of the pool is sharply defined where the Woodbine sand is cut by this fault, the "Mexia Fault". Against the main part of the field this fault has a relatively low westward dip, amounting to 35 or 36 degrees in the formations above the Austin chalk, but increasing to 50 degrees or more from the top of the Austin chalk downward. Toward the north and south ends of the field either this fault steepens or it is intersected by other faults, dipping steeply. The details of the structure at the two ends of the Mexia pool have not been thoroughly investigated by the writer.

The relationship between accumulation and faulting at Mexia has been clearly established by subesquent development. The largest gushers were close to the line where the pay sand is cut by the fault. In many instances the western offset to a big well was found to be a dry hole if it happened to be drilled across this line. Eastward the average flush production of the wells diminished to the eastern margin of the pool.

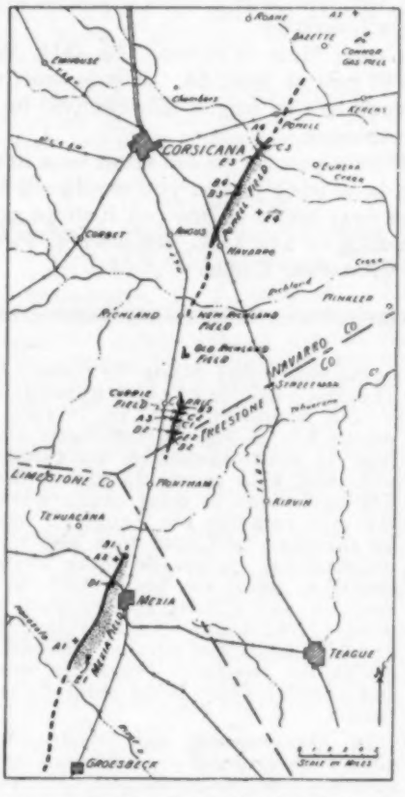

Fig. 1.—Outline map showing distribution of oil fields in the Mexia Fault Zone. The lettered and numbered points indicate the approximate locations of the wells of which logs are shown in Figs. 3 to 7.

Currie Field

Structural conditions in the Currie field have already been rather fully described by the writer.[4] In brief, the production here, contained in certain sands of the Woodbine formation, at a depth of about 2950 feet, is banked up against a fault of the Mexia type, with a westward dip of between 45 degrees and 60 degrees, a strike a little east of north, and a displacement of fully 250 feet or more, with downthrow on the west. The discovery well, known as Meador 1, was drilled by the Humphreys-Mexia Oil Company, the location having been made by Mr. Fohs and his geological staff. As in the case of Mexia, this first well was located on an anticline, but the fold is relatively small and poorly exposed. The proximity and relations of the big fault were not known until drilling revealed the deep subsurface conditions. The oil here has a gravity of about 41 degrees or 42 degrees Baume at 60 degrees Fahr.

Seay-Cranfill Field

The extent of the Seay-Cranfill or Old Richland field, has not yet been determined. The discovery well, estimated to have yielded a flush of over 50 million cubic feet of gas per day, was drilled at a point where, as in the case of the Meador 1 at Currie, there seemed to be indications of a small anticlinal fold. This location was selected by Mr. D. J. Edson, of the Humble Oil Company. Subsequent drilling disclosed the fact that this small fold is associated with a fault almost identical with, and perhaps a northward continuation of, the Currie fault. The displacement here is 250 feet or more. Production, consisting of both gas and oil (40° to 41° Baume at 60° Fahr.), as at Currie, comes from the Woodbine sand at depths between 2950 and 3000 feet.

Powell Field

The Powell Field, remarkable for the rapidity with which it was developed and for the huge daily yield when its production was at the peak,[5] is bounded on the west by a fault of the Mexia type with a displacement of at least 400 or 500 feet. Production in the Woodbine formation is obtained from depths between 2800 and 2900 feet. The oil has a gravity of about 36 degrees Be. The discovery well was drilled by the Corsicana Deep Well Company on the Burke land about 1¼ miles south of the town of Powell. It was located a short distance down the flank of a small, pronounced anticline which was mapped by Matson and Hopkins on the shallow oil-bearing sand of the "Burke Pool."[6] Again, the association of this fold with a major fault of the Mexia type was not proved until after several holes had been drilled. Because the Burke discovery well was down a little from, and southwest of,

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NOTE—This paper has been accepted for publication by the American Institute of Mining and Metallurgical Engineer.

[1]See "Structural and Stratigraphic Data of the Northeast Texas Petroleum Area," by F. Julius Fohs and H. M. Robinson. Economic Geology, Vol. XVIII, pp. 709-731. 1923.

[2]Mapped on the shallow gas sand by George C. Matson, in Bulletin 629, U. S. Geol. Survey, in 1916.

[3]The formations encountered in this general area, going downward in the section, are: Midway (Eocene), up to 350 or 400 ft.; Navarro-Taylor shale and marl formation, 2000 to 2200 ft.; Austin chalk, 385 to 475 ft.; Eagle Ford shale, 210 to 425 ft., and Woodbine formation, including chiefly sandstones and sandy shales, 300 to 400 ft.

[4]The Currie field, Navarro County, Texas. Bulletin Am. Assoc. Petroleum Geologists, Vol. VII, pp. 25-36. 1923.

[5]Over 350,000 barrels per day in the third week of November, 1923.

[6]See The Corsicana Oil and Gas Field, Texas, by George C. Matson and Oliver B. Hopkins. Bulletin U. S. Geol. Survey, 661, pp. 211-252. 1917.

the top of the anticline in the shallow oil sand, the concensus of opinion at first was that the field would extend northeast. Finding the Woodbine pay unexpectedly high in wells drilled southwest soon caused an intensive leasing campaign in this direction and, eventually, the development of the pool southwestward as far as the town of Navarro.

New Richland Field

The discovery well in the New Richland Field was drilled by McDonald Brothers on the A. M. Brown land. By drilling, this newest pool in Navarro County has been shown to be attached to a great fault of the Mexia type with a dip toward the west, ranging from 45 degrees to 60 degrees, and with a downthrow on the west amounting to 500 feet or more. The large displacement would seem to ally this fault with the Powell fault, rather than with the Seay-Cranfill fault; but this is a point still to be settled. Production in this field is obtained from the Woodbine at depths between 2900 to 2960 feet. The oil has a gravity of about 38.5 degrees Be. at 60 degrees F.

Importance of Mexia Type of Structure.

In reviewing the general characters of these oil fields, one is impressed by the peculiar, yet definite, structural conditions which attend the petroleum reservoirs, and also by the close resemblance of these conditions in all the pools within the Mexia zone. Although, before the Mexia field was developed, the Mexia type of structure—a strike fault with upthrow on the side toward the regional dip of the strata—was regarded by geologists as possibly favorable to oil accumulation, its great economic importance in the Mid-Continent region was not fully appreciated until within the last two or two and a half years. During these years much time and money have been spent in seeking other similar faults, but, outside the Mexia Fault Zone as we have described it above, the only fields recently developed, which seem to be associated with the same kind of displacement, are the Luling Field of Caldwell and Guadalupe Counties,[7] and the chain of pools in the Mirando District of Webb County, Texas.[8] When more is known, we may find that these three fault regions (the Mexia-Powell, Luling and Mirando) may all be parts of one great system extending from extreme Southwest Texas northeastward to Hunt and Hopkins Counties, and perhaps farther.

Dimensions of Pools of the Mexia Type

It is characteristic of pools of the Mexia type that they are relatively long and narrow. This, of course, is because the oil has accumulated along and close to the fault. The dimensions of the pools to which we have referred above are given below:

Name of pool	Length along fault	Maximum width
Mexia	7 miles	1¼ miles
Currie	2 miles	2800 feet
Powell	7½ miles	4000 feet
Luling	7½ miles	4000 feet
Mirando Group	At least 25 miles	5000 feet

We have included Luling and the Mirando Group in this table for comparison. The Old and New Richland fields are omitted because their limits are not yet sufficiently determined.

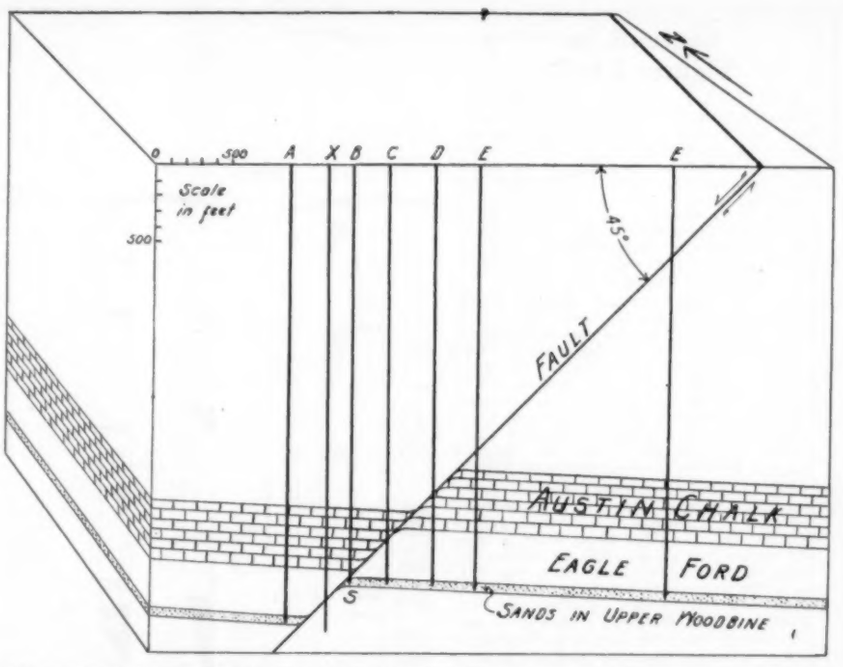


FIG. 2.—Block diagram showing general conditions attending fault structures of the Mexia type. The vertical lines represent the relative positions of wells like those recorded in the logs of Figs. 3 to 7. The logs of Fig. 3 correspond to the wells E, in Fig. 2; those in Fig. 4 correspond to well D, in Fig. 2; and so on. To emphasize the relations of these wells to the structure, we have shown the fault with a uniform dip of only 45°, although in many localities it has been proved to have a dip which may be variable and which may be as high as 60° or 65° from the top of the Chalk downward. We have also drawn the fault trace on the surface as a straight line. Ordinarily it would probably be more or less sinuous if it could be seen. Note that the front face of the block is a cross-section drawn to natural scale.

Poor Exposure of the Major Fault at the Earth's Surface

A remarkable fact brought out by the history of the pools of the Mexia Fault Zone is that in no case was the discovery well located in reference to a known position of the controlling fault.[9] In most cases the first well was placed on an anticline, usually small and insignificant, which subsequent drilling showed to be the effect of drag of the adjacent fault.

In spite of the large displacement of these faults, they can seldom be found on the surface of the ground. At Mexia the fault is exposed, but in a very inconspicuous manner. In some other localities geologists, who have made an exceedingly careful study of the stratigraphy of the Midway beds, claim that they can locate the break by repetition of a portion of the Midway section. For the most part, however, no trace of the displacement can be discovered on the surface. This may be attributed to two causes,—(1) there is in these counties a widespread soil cover, formed partly of weathered Cretaceous and Eocene beds and partly of the redistributed Pleistocene mantle; and (2) some of the slipping on these faults seems to have occurred before Midway times. The displacement in the Midway is not as great as in the underlying Cretaceous.

Interpretation of Subsurface Conditions

In oil producing territory where surface exposures are poor, as in the Mexia Fault Zone, the study of subsurface conditions by means of well logs becomes of prime importance. It is true that some well logs are so poor that they are useless and others are difficult to interpret, and for this reason some so-called "practical oil men" are inclined, mentally if not actually, to cast aside all logs as of no value. This perhaps has been especially true of the Mexia Fault Zone records, which have differed so profoundly and apparently without reason. The blame was at first placed on the driller (whom we admit is often too careless in keeping the records of the formations which he penetrates), but, as we want to explain below, too much undue criticism has been heaped on the logs of wells in these pools. These logs vary, of course, but most of them can be interpreted within a limit of error which is small in comparison with the practical facts determinable in their correlation. In the fields of the Mexia Fault Zone the value of intensive study of the well records is very great.

Comparison of Logs

We have already emphasized the particular characteristics of the main con-

[7] See Pratt, W. E.: Oil at Luling, Caldwell County, Texas, Bulletin Am. Assoc. Petroleum Geologists, Vol. VII, pp. 182-3. 1923. The discovery well of the Luling field, drilled by the United North and South Oil Company, was located upon the recommendation of Mr. Vernon Woolsey, geologist, who found the controlling fault and mapped the structure.

[8] Production at Luling is from the Georgetown or upper part of the Edwards limestone, of Lower Cretaceous age, reached at depths near 2150 feet; production at Mirando is found principally in the Cooks Mt. Formation of Tertiary age, at depths of 1500 to 2000 ft.

[9] As exceptions to this statement might be cited the Boyd Company's Connor No. 1, a gas well north of Kerens, and perhaps the Jones well near Kosse; but a field still remains to be opened up in the former case, and in the latter only one well out of 30 odd holes drilled has made oil, and this for only a very short time.

Captions for Figures 3 to 7

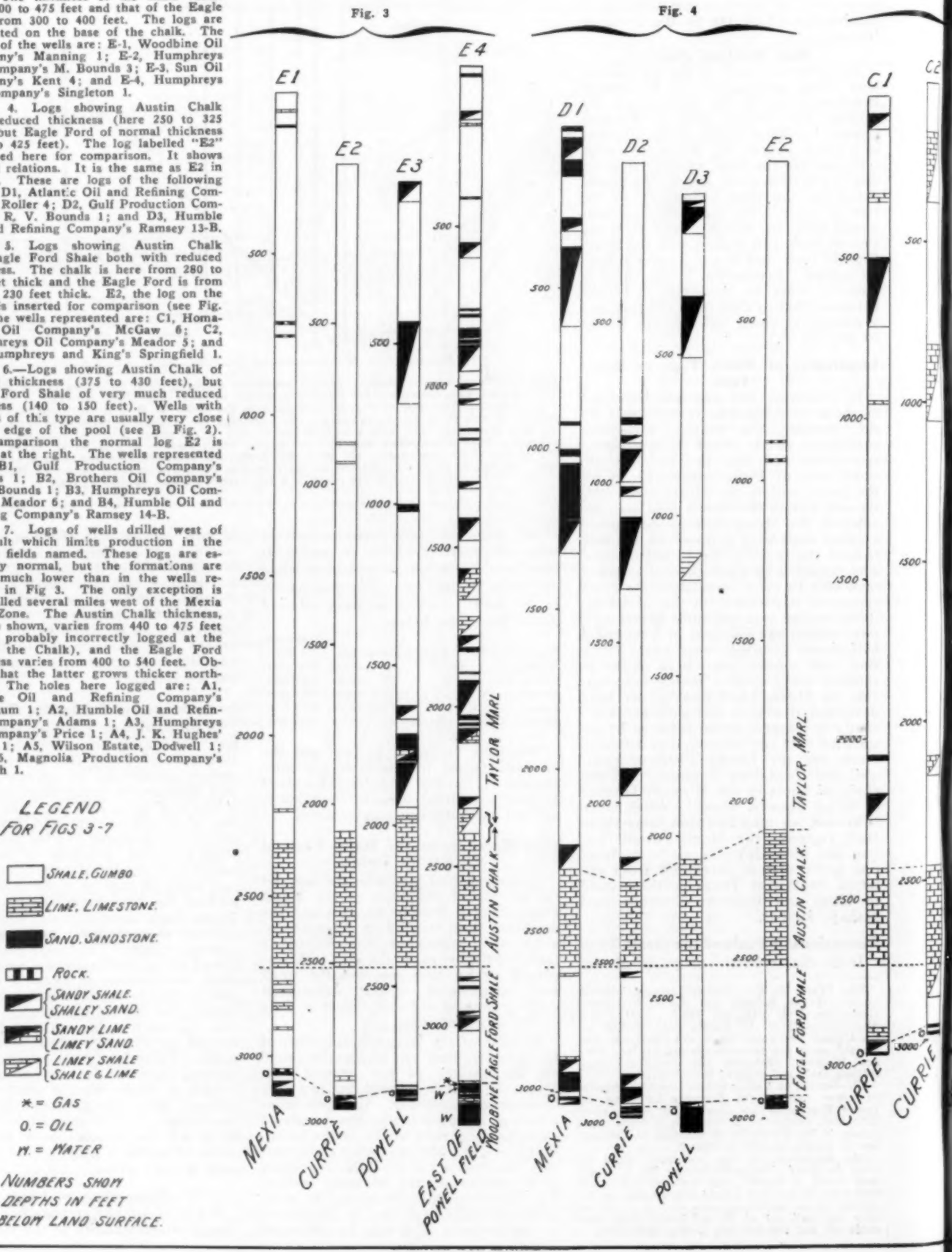
Fig. 3. Logs showing approximately normal relations of Austin Chalk, Eagle Ford Shale and upper Woodbine Formation. The thickness of the chalk varies from 400 to 475 feet and that of the Eagle Ford from 300 to 400 feet. The logs are correlated on the base of the chalk. The names of the wells are: E-1, Woodbine Oil Company's Manning 1; E-2, Humphreys Oil Company's M. Bounds 3; E-3, Sun Oil Company's Kent 4; and E-4, Humphreys Oil Company's Singleton 1.

Fig. 4. Logs showing Austin Chalk with reduced thickness (here 250 to 325 feet), but Eagle Ford of normal thickness (375 to 425 feet). The log labelled "E2" is placed here for comparison. It shows normal relations. It is the same as E2 in Fig. 3. These are logs of the following wells: D1, Atlantic Oil and Refining Company's Roller 4; D2, Gulf Production Company's R. V. Bounds 1; and D3, Humble Oil and Refining Company's Ramsey 13-B.

Fig. 5. Logs showing Austin Chalk and Eagle Ford Shale both with reduced thickness. The chalk is here from 280 to 300 feet thick and the Eagle Ford is from 180 to 230 feet thick. E2, the log on the right, is inserted for comparison (see Fig. 3). The wells represented are: C1, Homa-Okla Oil Company's McGaw 6; C2, Humphreys Oil Company's Meador 5; and C3, Humphreys and King's Springfield 1.

Fig. 6.—Logs showing Austin Chalk of normal thickness (375 to 430 feet), but Eagle Ford Shale of very much reduced thickness (140 to 150 feet). Wells with records of this type are usually very close to the edge of the pool (see B Fig. 2). For camparison the normal log E2 is placed at the right. The wells represented are: B1, Gulf Production Company's Hughes 1; B2, Brothers Oil Company's R. V. Bounds 1; B3, Humphreys Oil Company's Meador 6; and B4, Humble Oil and Refining Company's Ramsey 14-B.

Fig. 7. Logs of wells drilled west of the fault which limits production in the several fields named. These logs are essentially normal, but the formations are found much lower than in the wells recorded in Fig 3. The only exception is A6, drilled several miles west of the Mexia Fault Zone. The Austin Chalk thickness, as here shown, varies from 440 to 475 feet (A4 is probably incorrectly logged at the top of the Chalk), and the Eagle Ford thickness varies from 400 to 540 feet. Observe that the latter grows thicker northward. The holes here logged are: A1, Humble Oil and Refining Company's Nussbaum 1; A2, Humble Oil and Refining Company's Adams 1; A3, Humphreys Oil Company's Price 1; A4, J. K. Hughes' Burke 1; A5, Wilson Estate, Dodwell 1; and A6, Magnolia Production Company's Cernoch 1.



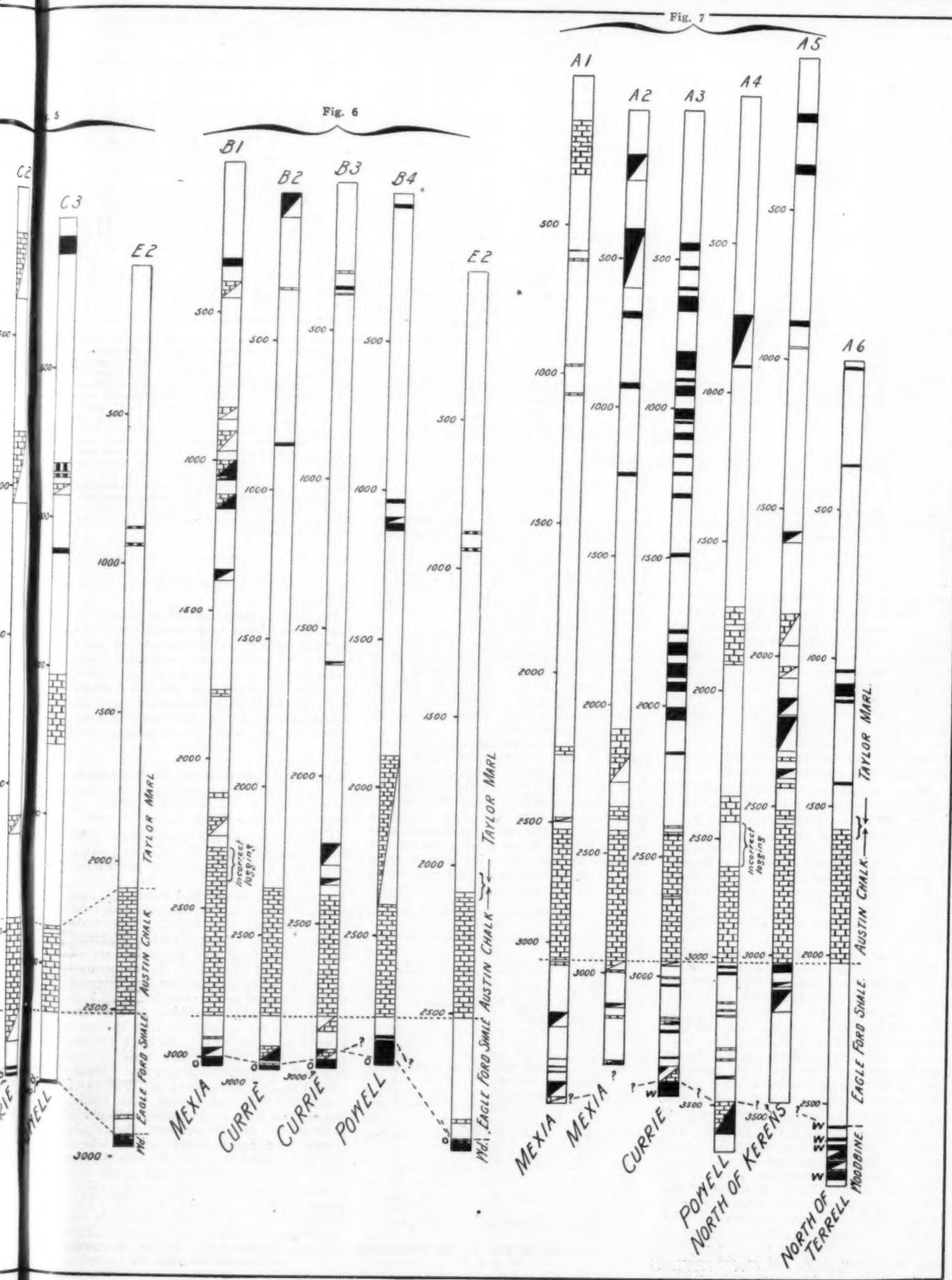


Fig. 5
C2
C3
E2
Fig. 6
B1
B2
B3
B4
E2
Fig. 7
A1
A2
A3
A4
A5
A6
TAYLOR MARL
AUSTIN CHALK
EAGLE FORD SHALE
INCORRECT LOGGING
MEXIA
CURRIE
POWELL
NORTH OF KERENS
NORTH OF TERRELL
WOODBINE

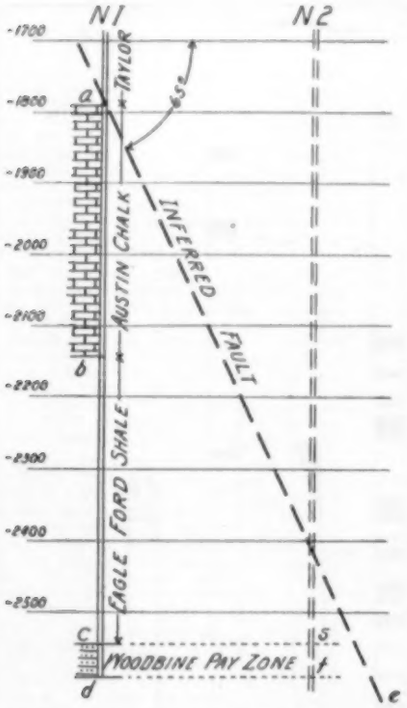


Fig. 8. Graphic method of determining position of next well to be drilled in relation to fault. For explanation, see text.

trolling fault in each of the fields in the Mexia Fault Zone. These faults, let us repeat, strike a little east of north, nearly parallel to the regional strike of the beds; dip usually at angles between 45 degrees and 60 degrees toward the west; have the downthrow on the side up the regional dip of the strata, and therefore are accompanied by drag downward toward the west in the eastern or upthrow block. In every instance the oil has accumulated against the fault in the upthrown block.

These conditions are diagrammatically shown in Fig. 2. The vertical lines which are lettered here represent wells corresponding to the logs drawn in Figs. 3-7. In these figures, like logs have been selected from the Mexia, Currie and Richland districts, and have been placed together for easy comparison. Logs of the same types could have been chosen from the Richland Fields.

In Fig. 3 are four logs that display normal relations in the Austin Chalk and Eagle Ford Shale. The locations of these wells are indicated in Fig. 1. E4 was drilled far down the regional dip and therefore encountered the formations deeper than in the other three cases. All these wells are situated east of the point where the fault cuts the top of the Austin Chalk. Those which are near this point might correspond to the positions marked "E" in Fig. 2.

In Fig. 4, in logs D1, D2, D3, the Austin Chalk has a reduced thickness, but the Eagle Ford has normal thickness. This is because the fault has cut out some of the chalk. Records of this kind would be obtained from the point where the fault intersects the top of the chalk on the upthrown side to the point where it cuts the base of the chalk on the upthrown side. If the throw of the fault (vertical component of the displacement) is as great as or greater than the thickness of the chalk, the top of the chalk in logs of type D coincides with the fault surface; but if the throw is less than this amount, the top of the chalk is the fault surface only down to the point where the fault cuts the chalk top in the downthrown block. In log correlations it is important to recognize this fact in making estimates of the dip of the fault.

In Fig. 5, logs C1, C2 and C3, show both the Austin chalk and the Eagle Ford shale with less than normal thickness. (See E2, a normal log inserted for comparison.) This condition may be explained by reference to "C" in Fig. 2. Anywhere between the point where the fault intersects the base of the chalk on the upthrown side and the point where it intersects the base of the chalk on the downthrown side logs of type C would be obtained. The base of the chalk here coincides with the fault surface. Observe that if the throw of the fault were greater than the thickness of the chalk, a well might encounter no chalk in the region of "C", Fig. 2.

In Fig. 6 the B logs all have Austin chalk of normal thickness, but the Eagle Ford is thinner than normal (cf. log E2). This condition corresponds to "B" in Fig. 2. Note that the fault must be very near the top of the Woodbine in a log of type B. If the fault had a throw greater than the thickness of the Eagle Ford a well at locality "B" might pass directly from chalk into the Woodbine, with no intervening Eagle Ford shale.

At X, in Fig. 2, a well might not encounter the upper part of the Woodbine. It might pass from Eagle Ford into a lower portion of the Woodbine or, if the throw of the fault were sufficiently great it might entirely miss the Woodbine formation.

In Fig. 7 are several logs of holes drilled in the downthrown block, west of the main Mexia fault zone. The first five, A1-A5, are not far west of the fault, and therefore show the formations low. A6 was drilled in Northern Kaufman County, north of Terrell, several miles up the regional dip of the strata. It has been introduced here merely for comparison. All these logs record the formations of normal thickness. They are very much like those in Fig. 3.

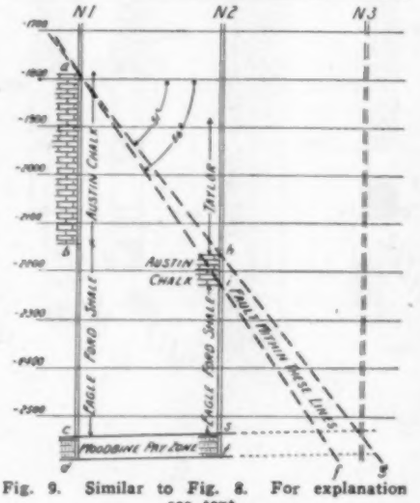


Fig. 9. Similar to Fig. 8. For explanation see text.

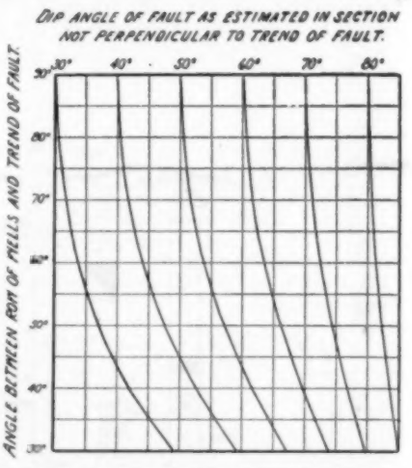


Fig. 10. Curves for determining true dip from dip components measured in sections not perpendicular to strike. Suppose that a row of wells makes an angle of 50° with the approximate trend of the fault and that the logs of these wells indicate that, within the plane of the wells, the fault dips between 40° and 45° west. We want to know the approximate true dip of the fault. At the top of the diagram find "40°", and from this point follow down the curve to its intersection with the horizontal line marked "50°". This curve cuts the 50-degree line about midway between the vertical line for 45° and the vertical line for 50°, thus indicating a true dip of 47° or 48°. The reader must bear in mind that the results will be only approximate since the dips measured in the log section are not accurate.

From an inspection of the logs in Figs. 3 to 7 two facts stand out: (1) in each of the fields records of very similar character are obtained from wells drilled in analagous positions relative to the fault, and (2) the logs of wells drilled along lines transverse to the direction of the fault may be very dissimilar and still be essentially correct.

Practical Application of Well Records

The following suggestions are made in reference to holes drilled within or near the Mexia Fault Zone:

1. Suppose that the approximate general trend of the fault zone is known and that a hole is drilled somewhat east of this trend. The log records Austin chalk of normal thickness and distinctly low as compared with the expected depth (see Fig. 3). This hole probably lies a considerable distance east of the fault and possibly east of any oil pool that may be associated with the fault; for observe how narrow the discovered pools are (see p. 25.)

2. A hole which is being drilled supposedly in the trend, but with the possibility of being west of it, does not encounter the Austin chalk until it has reached a surprisingly great depth. (See Fig. 7). Very often the drillers of wells like this one report high chalk, but as the hole is deepened this chalk proves to be interrupted by shale breaks and furthermore, about where the drill should go out of true Austin chalk, it enters the typical chalk and continues in this for four hundred feet, more or less. (cf. A4, Fig. 7). This "high chalk," or Taylor "chalk" is exceedingly like the true Austin chalk and has deceived the drillers in many

(Continued on page 34)

Ten Leading Companies in Oklahoma
(SECOND QUARTER, 1924)

Company—	Second Quarter 1924	First Quarter 1924	Fourth Quarter 1923	Third Quarter 1923	Second Quarter 1923
Gypsy Oil Company	2,986,789	3,023,775	3,130,141	3,973,893	4,916,084
Phillips Petroleum Company	2,974,475	2,936,399	2,554,999	3,089,022	906,024
Comar Oil Company	2,007,664	2,199,676	1,402,026	4,149,797	4,960,704
Skelly Oil Company	1,905,614	2,192,953	2,173,279	3,056,069	3,526,283
Carter Oil Company	1,879,769	2,066,552	2,065,480	2,900,918	2,142,016
Magnolia Petroleum Company	1,645,714	1,602,302	1,605,652	1,517,945	1,408,540
Prairie Oil and Gas Company	1,601,535	1,477,295	1,572,254	1,531,893	1,397,023
Sinclair Oil and Gas Company	1,468,563	1,481,306	1,333,888	1,252,105	1,641,663
Roxana Petroleum Corporation	1,126,140	845,253	731,579	.....	.....
Cosden Oil and Gas Company	782,973	.....	.....	.....	.....
Total all companies second quarter, 1924				39,353,097	
Total all companies first quarter, 1924				36,127,655	
Total all companies fourth quarter, 1923				35,986,802	
Total all companies third quarter, 1923				40,249,817	
Total all companies second quarter, 1923				44,749,630	

Oklahoma Shows Increase Second Quarter

Tonkawa and Burbank principal factors in boosting output more than 3,000,000 barrels

Oklahoma City, Okla., Aug. 19.—Notwithstanding a strong downward tendency in the crude market as well as rumors of proration generally, and actual curtailment of runs in a few instances, production from all fields in Oklahoma showed an increase of more than 3,225,000 barrels of oil during the second quarter of this year, as compared with the first. The total amount of oil recovered from all districts totaled 39,353,097 barrels against 36,127,655 barrels for the preceding quarter.

Much of this increase can be attributed to Tonkawa and Burbank. Deeper sands at Tonkawa have added materially to the output of the state recently, and development work in the Burbank area has been encouraged by the Osage sales. Leases have been developed to meet contract obligations. Cromwell has been increasing more or less steadily, and the daily average of the state has been increasing more or less steadcreases from these several pools.

Little change among the leading companies is reported as compared with last quarter. Among the ten concerns producing the most oil, all are the same as last quarter with the exception of Cosden Oil and Gas Company which appeared among the ten leading companies this quarter, but was not on the list for the first three months of the year. The Gypsy Oil Company showed a loss of more than 100,000 barrels in the total amount of oil recovered for the quarter. All other companies on the list of ten show increases.

Gypsy heads the list with a total production of 3,023,775 barrels. Then follows Phillips Petroleum Company, Comar Oil Company, Skelly Oil Company, Carter Oil Company, Magnolia Petroleum Company, Prairie Oil & Gas Company, Sinclair Oil & Gas Company, Roxana Petroleum Corporation, and Cosden Oil & Gas Company.

Sinclair Oil & Gas Company dropped to eighth in the list this quarter and The Prairie Oil & Gas Company took seventh place. These companies swapped positions last quarter.

Just what the results of the third quarter's work will show is difficult to determine. As the situation now stands further increases seem inevitable.

Complete production figures as furnished the state auditor for taxation purposes, follow:

Company and Location—	Barrels
Aaronson, C. T., Tulsa	3,731
Acacia Oil & Gas Co., Pawhuska	1,735
Ackerman, F. T. & W. C. Coles, Tulsa	686
Acta Oil Co., Okmulgee	1,317
Adams Bros. & Prince, Ardmore	1,379
Adams & McGahey, Ardmore	236
Aetna Petr. Co., Pittsburgh, Pa.	738
Aggas, John, Morris	166
Albion Oil Co., Tulsa	9,202
Alcorn Oil Co., Ponca City	22,114
Aldrew Oil & Gas Co., Tulsa	1,978
Alexander, J. H., Tulsa	343
Alexander-Shakely Petr. Co., Tulsa	9,257
Allison, R. J., Tulsa	2,909
Alluwe Oil Co., Coffeyville, Kans.	8,150
Almeda Oil Co., Bartlesville	3,500
Amerada Petr. Corp., Tulsa	750,579
American Contracting & Prod. Co., Bartlesville	274
American Eagle Oil Co., Bartlesville	28,584
American Oil Development Co., Pittsburgh, Pa.	12,862
American Oil & Gas Co., Bartlesville	4,906
American Pipe Line Co., Wichita Falls, Texas	4,989
American Royalty Petr. Co., Tulsa	1,071
Anderson, C. F., Trustee, Dallas, Tex.	3,046
Anderson, S. A., Estate, Tulsa, care Elva Barrows, Exec.	10
Andes Oil & Gas Co., Tulsa	396
Anglo-Texas Oil Co., Tulsa	15,396
Argue & Compton Co., Tulsa	3,125
Arkansas Fuel Oil Co., Pittsburgh, Pa.	475
Armstrong Trust Co., Tulsa	.....
Arthur Oil Co., Sistersville	.....
Ashland Oil Co., New York, N. Y.	5,837
Associated Oil Co. of Texas, Wichita Falls, Texas	82
Associated Oil Producers, Chicago, Ill.	7,516
Atlantic Oil Prod. Co., Dallas, Texas	376,021
Atlantic Petroleum Corp., Tulsa	101,614
Aubyme Oil & Gas Co., Garber	3,738
Avery, Cyrus S., Tulsa	70
Avery Oil & Gas Co., Tulsa	1,762
Aymer, Chas., Nowata	563
Aztec Oil Co., Tulsa	13,808
Bagley Oil & Gas Co., Auburn, Nebr.	3,943
Baker, Frank A., Tulsa	516
Baker Oil & Gas Co., Independence, Kans.	212
Baker & Strawn, Tulsa	21,045
Bell, Cora G., Trustee, Coffeyville, Kan.	650
Baltic Operating Co., Bartlesville	6,976
Balwanz, H. F., Bartlesville	28
Bamm Oil Co., Tulsa	147
Banford Oil Co., Tulsa	385
Barbara Oil Co., Okmulgee	17,177
Barber, Ruby V., Okmulgee	32
Barber, R. W. & Wife, Okmulgee	1,572
Barber, R. W., Gdn. Richmond W. Barber, Okmulgee	153
Barber Oil Co., Tulsa	279
Barker, Harry C., Poughkeepsie, N. Y.	1,168
Barnsdall Oil Co., Tulsa	316,985
Barrows, Elva, Tulsa	10
Bartles, Johnstone Oil Co., Bartlesville	732
Bartlesville Oil & Development Co., Bartlesville	140
Bartlett, David A., Estate, Peoples' Banking & Trust Co., Trustee, Marietta, Ohio	328
Bartlett, J. B., Tulsa	241
Bartlett, R. H., Rec'r. Adams Oil & Gas Co., Tulsa	3,150
Bauder & Franklin, Tulsa	24
Baum, Henry, Ardmore	973
Baxter, L. W., Tulsa	759
Bays, Alex, Okmulgee	1,167
Bay State Oil & Gas Co., Kansas City, Mo.	16,032
Bay State Oil & Gas Co., Kansas City, Mo., and Paden Oil & Gas Co., Oklahoma City	3,192
Baynes, John A., Exec., Mounds	76
B. & B. Waite Drilling Co., Bartlesville	51
Beacon Oil Co. & Boston & Osage Oil Co., Bartlesville	5,188
Beams, Drew, Okmulgee	2,360
Beal, C. E., Depew	2,776
Beasley, S. A., P. H. Stein & M. S. Mussellem, Muskogee	137
Beau-Ard Oil Co., Ardmore	1,113
Beauchamp, John L., Tulsa	46
Beggs Oil & Gas Co., Okmulgee	10,008
Bell Oil & Gas Co., Warren, Pa.	4,433
Ben Franks Oil Co., Enid	677
Bennett, Elizabeth, Tulsa	48
Berg, The Chas. E., Company, Inc., Tulsa	1,224
Bergen Oil & Gas Co., Tulsa	6,062
Bermingham, J. A., Tulsa	29,075
Berry, Geo. D., Coffeyville, Kans.	563
Berry, R. G., Tulsa	715

Company and Location—	Barrels
Berry, R. H., Tulsa	472
Berry Petroleum Co., Tulsa	75,175
Best, Edward, Nowata	334
Best, F. A. & W. J. Lambert, Tulsa	240
Best, Geo. C., Estate, Marietta, Ohio	1,391
Betty G Petroleum Co., Cement	435
Betty Ruth Oil Co., Broken Arrow	297
Biddles Oil Co., Tulsa	1,911
Billy Oil Co., Chelsea	173
Bingman, O. A., Okmulgee	1,310
Bingman, W. B., Okmulgee	1,310
Bingman, W. B., Trustee, Okmulgee	660
Bingman-Smith Oil Co., Okmulgee	7,484
Bird Creek Oil & Gas Co., Tulsa	1,266
Bird Creek Oil & Gas Co., et al, Tulsa	1,283
Bisett, Lytle & Gray, Tulsa	5,478
Bishop Oil Co., Tulsa	263
B. Jack Oil Co., Sapulpa	709
Black, Geo. E., Los Angeles, Cal	35
Black, J. J., Los Angeles, Cal	144
Black, Jno. R., Corsicana, Texas	334
Black, W. A., Montreal, Can	177
Black Panther Oil & Gas Co. and Turner & Stone, Trustees, Oklahoma City	20,168
Black, Sivalls & Bryson, Inc., Bartlesville	8,570
Blackstone Oil Co., Tulsa	1,301
Blackwell Oil & Gas Co., Blackwell	155,859
Blake, Wm., Tulsa	943
Blakeslee, H. W., Nowata	1,895
Bloch, J. H., Tulsa	569
Bole, Geo. S., Tulsa	58,744
Boles, Neal & Perry, Cleveland	919
Bolivar Run Oil Co., Tulsa	1,546
Bond, J. R., Oil Co., Oklahoma City	761
Borealis Oil Co., Oklahoma City	734
Bovaird, W. M., Sapulpa	3,884
Boyd, Lynn, Wilson	800
Boyd Oil Co., Tulsa	572
Braden Co., The, Tulsa	306
Braden & Moore, Tulsa	12,242
Braden & Myers, Tulsa	851
Braden, Myers & Clinkscale, Tulsa	858
Braden, Overton & Braden, Tulsa	2,664
Bradfield, C. H., Tulsa	236
Bradfield, C. H., Receiver Glasco Oil Co., Tulsa	9,737
Bradfield, C. H., Trustee, Tulsa	119
Bradford Oil Corp., Robinson, Ill	489
Bradley, E. A., et al, Tulsa	2,007
Bradstreet, J. G. & Co., Tulsa	475
Brady, E. H., Tulsa	472
Brann, Jas., Bartlesville	3,753
Brann, Jas., Receiver, Bartlesville	1,044
Brann, R. D., Trus., Kansas City, Mo.	4,063
Branson & Harmon, Nowata	1,256
Breene, Frank M., Tulsa	49,110
Breene, Frank M., et al, Tulsa	13,150
Breene, Mabel V., Tulsa	93
Brewer, R. C., Receiver, Chelsea	469
Bridgman, Welsh & Haner, Muskogee	466
Bright, Samuel, Okmulgee	1,803
Brittain, R. E., Oklahoma City	9,583
Britton-Johnson Oil Co., Tulsa	14,920
Brothers Oil Co., Inc., Tulsa	45
Brown, Chas. H., Oklahoma City	11
Brown, Guy, Oil Co., Wichita Falls, Texas	5,694
Brown, L. H., Karn City, Pa	67
Bruen, Rigdon & Bruen, Kansas City, Mo.	307
Brundred Oil Corp., Oil City, Pa	2,165
Bruner, A., Tulsa	367
Bruner Oil Co., Independence, Kans	561
Bryan, J. S., Oklahoma City	2,447
Bucher, P. O., Bartlesville	571
Buchner, Guy M., Holdenville	38
Buell, Bartlett & Co., Sapulpa	1,298
Buffalo Oil Corp., Buffalo, N. Y	162
Bull Head Co., Ardmore	510
Bumbaugh, Geo. I., Coffeyville, Kans	133
Burke & Greis, Tulsa	797
Burke-Greis Oil Co., Tulsa	6,899
Burke-Greis Oil Co. & Darby Petr. Corp., Tulsa	26,153
Burke-Hoffeld Oil Co., Tulsa	19,829
Burton, Dan A. & W. Dickinson, Tulsa	257
Bushfield Oil Co., Chelsea	467
Buttram Petr. Corp., Oklahoma City	764
Bu-Vi-Bar Petr. Corp., Bristow	1,023
Byers, Myrtle S., Guardian, Nowata	17
Bynum, Maude A., et al, Tulsa	1,434
Cabin Valley Mining Co., Chelsea	2,347
Cala Belle Oil Co., Cement	741
Callahan Oil Co., Omaha, Nebr	423
Callender, F. S., Trus., Pittsburgh, Pa.	3,577
Callihan, W. F., Sapulpa	123
Cameron Refining Co., Ardmore	70,136
Campbell, J. A. No. 2, Tulsa	313
Campbell, H. L., Trustee, Nowata	584
Campbell & Byers, Cherryvale, Kans	1,163
Campbell & Walford, Tulsa	923
Campbell Oil Co., Tulsa	4,225
Canadian U. S. Oil Ref. Corp., Chicago, Ill.	1,160
Canary, J. D., Littleton, Colo	4,775
Canary, S. C., Tulsa	7,732
Canary & Canary, Littleton, Colo	2,847
Canary & Sinclair, Littleton, Colo	71
Canfield, W. E. & G. W., Yale	812
Cappeau, J. P., Tulsa	147
Cappeau, M. B., Tulsa	726
Carey Oil & Gas Co., Wellsville, N. Y.	445
Carles, S. L., Plattsburg, Mo	176
Carlock & Dexter, Ardmore	868
Carner, Akin & Argne, Bartlesville	915
Carpathia Petr. Co., Tulsa	19,548
Carr, J. M., Okmulgee	236
Carr, M. L., Okmulgee	15,225
Carter Oil Co., The, Tulsa	1,879,769
Cassidy, Aline M., Admrx., Guthrie	2,890
Caswell, Chas. H., Bartlesville	324
Cato Oil & Gas Co., Sapulpa	5,891
Central Petroleum Co., Tulsa	12,262
Central Union Oil Co., Tulsa	933
Chamberlain, H. G., Marietta, Ohio	316
Champlin Refining Co., Enid	17,164
Chestnut & Smith Corp., Tulsa	10,125
Chief Bigheart Oil & Gas Co., Wichita Kans.	83
Chief Drilling Co., Okmulgee	68
Choctaw Oil Prod. Co., Tulsa	1,174
Clarion Oil Co., Houston, Texas	3,876
Clark, L. P., Independence, Kans	179
Clifton & Wise, Sapulpa	60
Cline Oil Co., Wichita Falls, Texas	279
Clover, Marvin K., Tulsa	1,172
Cobb & Hollingsworth, Ardmore	621
Coe, R. W., Ardmore	2,272
Coe, R. W., Trustee, Ardmore	22,399
Cohen, Aaron, Baltimore, Md	3,350
Cohn, M. M. & D., New York, N. Y	93
Coker, J. M., Claremore	222
Cole Oil Co., Tulsa	104
Coline Oil Co., Oklahoma City	158,809
Collins, Ida M. & Ray M., Tulsa	571
Collins Mortgage Co., Kingfisher	131
Colpitt, T. S. & C. R., Collinsville	554
Comar Oil Co., St. Louis, Mo	2,007,664
Commerce Drilling Co., Tulsa	1,713
Commonwealth Oil Co., Warren, Pa	1,313
Compton, O. W., et al, Independence, Kans.	296
Congress Oil Co., Kansas City, Mo	130
Connelly, E. L., Tulsa	338
Connelly, E. L., et al, Tulsa	5,742
Connelly, G. W., Caney, Kans	2,053
Conner, B. C., Tulsa	21
Constantine, C., Pawhuska	1,394
Continental Oil Co., Bristow	2,683
Continental Oil & Ref. Co., Independence, Kans.	3,026
Coombs Oil, Gas & Land Co., Bartlesville	1,067
Cora Exploration Co., St. Louis, Mo.	221
Corbin Oil & Gas Co., Tulsa	1,639
Corbin & Haver, Tulsa	2,612
Coronado Oil & Gas Co., Cleveland	3,762
Correne Oil Co., Tulsa	2,328
Cortez Oil Co., Tulsa	80,551
Cory, L. L., Fresno, Calif	78
Cosden, J. S., Tulsa	5,335
Cosden Oil & Gas Co., Tulsa	782,973
Cowham, H. I., Independence, Kan	342
Cowles, La Monte, Burlington, Ia	360
Craig, D. G., Independence, Kan	181
Crawford, J. W. R., Jr., Tulsa	2,364
Creekmore, Morrison & Wolfe, Tulsa	252
Creo Oil Co., Tulsa	16,308
Crescent Oil Co., Bartlesville	668
Cromwell Oil & Gas Co., Tulsa	18,525
Crosbie & Gillespie, Tulsa	4,617
Crosby Drilling Co., Inc., Olean, N. Y.	408
Cruce & Potter, Ardmore	1,445
Cruce, Smith, Cruce, Ardmore	3,387
Cudahy Oil Co., The, Cleveland, Ohio	27,708
Cumberland Oil & Gas Co., Muskogee	516
Cumberland Pet. Co., Cleveland, Ohio	5,059
Curtis, W. L. Co., Elmira, N. Y.	305
Curtis, W. L. Co., & F. M. Aiken, Elmira, N. Y.	2,182
Cusack, F. E., Okmulgee	1,167
Cushing Gasoline Co., Tulsa	3,216
Czarina Oil Co., Ardmore	783
Daisy Belle Petroleum Co., Ardmore	10,519
Dallas Company, Tulsa	5,047
Damar Producing Co., Bristow	2,396
Damme-Pringle Oil & Gas Co., The, Okmulgee	765
Damon Oil Co., Tulsa	2,443
Danciger Oil & Refining Co., Kansas City, Mo.	455
Dannenberg, N. B., Est. Sarah Eliz Exec., Chelsea	361
Davis, C. P., Bristow	3,798
Davis, Jas. D., Tulsa	193
Davis, L. R., Tulsa	8,010
Davis, R. D., Cleveland	307
Dean, Jno., Estate, Guthrie	1,432
Deaner, C. H., Okmulgee	63
Deems, H. C., Tulsa	810
Deep Fork Oil Co., Marietta, Ohio	2,541
Deep Rock Oil & Refining Co., Chicago, Ill.	76,578
Dehner, A. L., Tulsa	10
Dekoma Dev. Co., Tulsa	377
Deloka Gas & Oil Co., Bartlesville	1,893
Delmar Oil Co., Bartlesville	267,472
Demack Oil Co., Tulsa	700
Denver Producing & Refining Co., Okmulgee	11,427
De Soto Gasoline Co., Houston, Texas	1,167
De Vinna, M. A., Tulsa	615
Devonian Oil Co., Tulsa	55,111
De Watt Oil & Gas Co., Okmulgee	1,855
Diamond, Harry H. Oil Co., Holdenville	2,221
Dick, Jno., Buffalo, N. Y.	121
Dickerson, O. W. Oil Co., Oklahoma City	1,156
Dilley, N. Y., Trustee, Waurika	3,468
Dixie Oil Co., Cement	4,092
Dixie Oil & Gas Co., Inc., Shreveport, La., Shreveport, La	253,540
Dock Oil & Gas Co., Bartlesville	783
Dolman, L. S., Walter H. Gant & S. W. Tyler, Ardmore	14,215
Dominion Oil & Gas Co., Washington, D. C.	219
Donnelly, J. C., Tulsa	265
Donohue, W. J. & K. D., Bartlesville	107
Doris Oil & Gas Co., Tulsa	1,050
Douglas Oil Co., Tulsa	316
Dover Oil Co., Bartlesville	714
D. & S. Oil & Gas Co., Tulsa	1,344
Duffield, R. S., Okmulgee	1,499
Duffield & Howard, Tulsa	3,638
Duffield, Lewis C., Tulsa	950
Duffield, L. C. & H. R. & Catherine Straight, Tulsa	11,157
Dumont, Archer, Carpenter, et al, Okmulgee	774
Dunn, Chas., Coweta	53
Dunn, J. J., Okmulgee	786
Dunn Mineral Trust, Ardmore	3,128
Dunn Oil Co., Tulsa	266
Dunnington, A. S., Tulsa	180
Eagle-Picher Lead Co., The, Henryetta	8,755
Eason, I. T., Enid	348
Eastern Oil Co., Buffalo, N. Y.	148,861
Ebling, L. R. & Co., Bartlesville	1,996
Echo Oil Co., Tulsa	40,961
Edgington, L. D., Hominy	336
Eliza Tim Oil Co., Sapulpa	257
Elk Producing Co., Tulsa	1,222
Elliott, W. C., Tulsa	345
Elliott & Smith, Tulsa	6,675
Ellis, I. G. & Harry W. Gibson, receivers Mid-Co. Pet. Co., Tulsa	31,094
Elm Oil Co., Tulsa	4,659
Elmer Oil Co., Elmira, N. Y.	2,384
Emery, Louis, Jr., & Sons, Bradford, Pa.	15,939

(Continued on page 36)

PERSONAL MENTION-MEN YOU KNOW

Robt. D. Allen, sales manager for the Wm. T. Powell Company of Cincinnati Ohio, well known wherever valves are used, was in Houston this week calling on the oil trade in the interest of his company.

Frank T. Pickrell, vice president and active manager of the Texon Oil & Land Company of Big Lake, Texas, departed last week on a business trip to Pittsburgh, Pa., and other points in the East.

Earl W. Miller, sales manager of the Cunningham Company of Tulsa, completed a trip through the Kansas fields during the last week.

Hal Gruber, manager of the oil country sales of the Williamsport Wire Rope Company of Tulsa, was in Muskogee last week in connection with company business.

L. S. Allen of the B. & A. Specialty Company of Tulsa, isn't trying to hide the smile that illumines his well known countenance. Constance, his youngest daughter, arrived on August 12 and Allen is spreadin' the good news.

J. S. Warren, secretary-treasurer and general manager of Maloney Tank Manufacturing Company of Tulsa, is on an auto tour of the North and Northwest country including Canadian points.

H. F. Mattern, general sales manager of the Reading Iron Company of Reading, Pa., is away from company headquarters on a tour of the Southwestern and Western oil country.

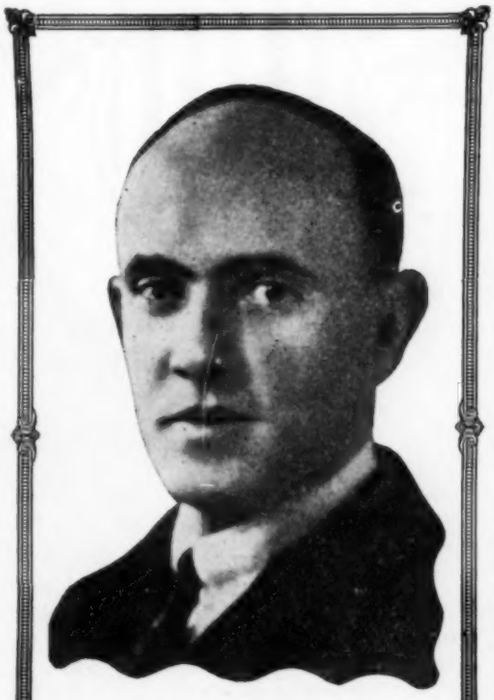
H. N. Hamilton, secretary of the Lorraine Corporation, headquarters at Los Angeles, departed for northern California points last week, going overland, and taking the family along to help him enjoy his annual vacation.

W. L. Stewart, secretary and treasurer of the California Petroleum Corporation, headquarters at Los Angeles, is spending his vacation in the woods of the northwest.

J. L. Dowling, vice president of The Texas Pipe Line Company with headquarters at Houston, made a tour of inspection of the company's pipe line system in North Texas last week.

A. C. Galbraith, in charge of the publicity department of the Union Oil Company, headquarters at Los Angeles, returned home last week after several weeks absence, spent mostly on foreign shores. He attended the Ad Club convention in London and also visited the home folks in Scotland.

A party of Shreveport purchasing agents has returned from a boat and fishing trip to Galveston Bay, where they were the guests of Tom White, local sales representative of the Peden Iron & Steel Company of Houston. The party was composed of O. D. Smith, of the Louisiana Oil Refining Corporation, L. K. McGuffin, of the Standard Oil Company; G. C. Long of the Gulf Refining Company, and Byron Russel, of the Shreveport City Water Works. All report a most enjoyable outing.



BURT R. RAY
Supt. Compressing Stations, Empire Companies, Bartlesville, Oklahoma

Thomas A. O'Donnell, president of the American Petroleum Institute, and chairman of the board, California Petroleum Corporation, spent a day or so at headquarters in Los Angeles last week, returning to El Monte for another two or three weeks of golf, before settling down to business for the fall and winter.

Frank Sterling vice president of the Humble Oil and Refining Company, headquarters at Houston, was having a great time in California last week. He is traveling overland with his family and after touring Canada, stopped over a few days at Los Angeles to go fishing with Bill Barr and A. J. Carr in Barr's boat.

W. L. Childs, general manager of the Boykin Machine Company, was in Tulsa a few days ago on business. Mr. Childs was accompanied by his wife and two children.

C. F. Russ, of the land department of the Gulf Production Company is spending a two-week vacation in Mexico.

C. C. Julian, Los Angeles oil man, returned home last week after several weeks in New York and other eastern points.

W. G. Jensen of Jensen Brothers Manufacturing Company of Nowata, Oklahoma, was in Tulsa this last week in connection with company business.

Joe M. Regan, one of the brothers who reign over the affairs of the Regan Forge and Engineering Company, San Pedro, Calif., departed last week for a vacation to be spent at Big Bear Lake to take a rest preparatory to the busy times he expects at the exposition in Tulsa. He hopes to catch up with his sleep so he can stay out all night if necessary at Tulsa.

A. T. Borst, manager of the Los Angeles branch of the Baker Casing Shoe Company, left Los Angeles last week for Centralia, Wash., his old home. His wife had gone on ahead in the family car and they will return to Los Angeles in the car when the vacation ends. His father crossed the plains in 1845, establishing himself on a ranch near Centralia.

A. F. Bourne, secretary and treasurer of the Oklahoma Iron Works, has returned to his office in Tulsa after a ten days visit to the home folks back in Trenton, Tennessee.

J. C. Lindsey general manager of the Western Pipe Line Company, has returned to Casper after a trip to the West Coast country.

O. R. Burden, who has been stationed in the Mexia district for The Texas Pipe Line Company for the past several years, has been transferred to the Wichita Falls division and made assistant superintendent.

B. F. Everitt of Detroit, Michigan, president of the Rickenbacker Motor Company, has been elected head of the U. S. Cities Corporation of Tulsa with properties in the Mid-Continent field.

R. W. Willis, president of the Willis Oil and Gas Company of Cushing, Oklahoma, has gone to Buffalo, New York, to attend a directors meeting of the company.

CRUDE OIL PRICE QUOTATIONS FOR ALL FIELDS

Current Postings

EASTERN STATES

	Aug. 22 1924	Aug. 22 1923
New York Transit	$3.00	$3.00
Bradford (Pa.)	3.00	3.00
Other Pa. Grades	2.75	2.75
Cabel	1.45	1.50
Ragland	.90	.75
Corning	1.75	1.60
Somerset, medium	1.35	1.40
Somerset, light	1.70	1.55

CENTRAL STATES

Illinois	$1.62	$1.67
Indiana	1.63	1.68
North Lima	1.83	1.88
South Lima	1.83	1.88
Plymouth	1.00	1.05
Lodi	1.65	...
Princeton	1.62	1.67
Waterloo	1.10	1.15
Wooster	1.65	1.70

CALIFORNIA

(Crude oil prices at well.)

Los Angeles and Orange Counties

14 to 19.9 gravity	$1.00	$ .60
20 to 20.9 gravity	1.01	.61
21 to 21.9 gravity	1.02	.62
22 to 22.9 gravity	1.03	.65
23 to 23.9 gravity	1.05	.68
24 to 24.9 gravity	1.07	.71
25 to 25.9 gravity	1.10	.74
26 to 26.9 gravity	1.13	.77
27 to 27.9 gravity	1.16	.80
28 to 28.9 gravity	1.19	.83
29 to 29.9 gravity	1.22	.86
30 to 30.9 gravity	1.25	.89
31 to 31.9 gravity	1.28	.92
32 to 32.9 gravity	1.31	.95
33 to 33.9 gravity	1.34	.98
34 to 34.9 gravity	1.37	1.01
35 gravity and above	1.40	1.04
Fuel Oil	1.40	...

WESTERN KENTUCKY

Posted by Indian Refining Company for crude from Allen, Warren, Franklin, Daviess, Barren, Cumberland and Monroe Counties.

33 gravity or below	1.45	...
36 and above	150	...
33 to 35.9	140	...
32.9 and below	1.30	...

MID-CONTINENT

(Prairie Prices)

Below 30 grav.	$1.10	$ ...
30 to 32.9 grav.	1.25	...
33 and above	1.50	...
Below 30 gravity	$1.10	
30-32.9	1.25	
33 gravity and above	1.50	

(Texas Company Prices)

Below 30 gravity	1.10
30 to 32.9	1.25
33 and above	1.50

(Sinclair Prices)

	Aug. 22 1924	Aug. 22 1923
(Magnolia Petroleum Co.)		
Below 28 gravity	.90	...
28 to 30.9 grav.	1.00	...
31 to 32.9 grav.	1.10	...
33 and above	1.25	...
Corsicana, light	1.25	...
Corsicana, heavy (at wells)	.90	...
Mexia	1.25	...
Thrall	1.00	...

NORTH CENTRAL TEXAS

(Humble Oil & Refining Co.)

Corsicana, light (Powell)	1.35	1.00
Mexia	1.35	1.00
Currie	1.35	1.00
Thrall	1.00	...

RANGER

(Humble Oil & Ref. Co.)

30 and below	1.00
30 to 32.9	1.20
33 to 35.9	1.40
36 and above	1.60

WICHITA AND ARCHER COUNTIES

(Texas)

(Humble Oil & Ref. Co.)

33 and above	$1.35

SOUTH TEXAS

Mirando (Texpata)	.80	.75
Mirando (Magnolia)	.75	...

SOMERSET

(Grayburg Pipe Line Company)

Under 28 gravity	$ .90
28 to 30.9 gravity	1.00
31 to 32.9 gravity	1.10
33 and above	1.25

GULF COAST

Grade "A"	1.35	...
Grade "B" at Blue Ridge, Hull and Pierce Junction	1.15	...

LULING

All gravities	.90	...

LOUISIANA-ARKANSAS

Caddo

38 gravity and above	$1.35	$...
28 to 37.9 gravity	1.25	...
32 to 34.9 gravity	1.15	...
Below 32 gravity	1.00	...
35 gravity and above	1.35	...
33 to 34.9 gravity	1.25	...
31 to 32.9 gravity	1.15	...
Below 31 gravity	1.00	...

Homer

	Aug. 22 1924	Aug. 22 1923
COTTON VALLEY		
All grades	.80	...
Haynesville		
33 gravity and above	1.25	...
Below 33 gravity	1.15	...
Bull Bayou		
38 gravity and above	1.30	1.35
35 gravity and 37.9	1.15	1.25
32 to 34.9 gravity	1.00	1.20
De Soto crude	1.35	1.45
Crichton	1.15	1.10
Bellevue	1.25	.85
Jennings	1.75	1.25
Vinton	1.75	1.25
Edgerly crude	1.35	1.25

Smackover

	Texas Co.	Standard of La.
26 gravity and above	.95	.95
25 to 25.9 gravity	.80	.80
24 to 24.9 gravity	.70	.70
Below 24.0 gravity	.60	.60

El Dorado

33 gravity and above	1.35	...
Below 33 gravity	1.25	...
East Field (Calion)	.60	...

Stephens District

(Posted by Atlantic Oil Producing Company)

28 gravity and above 60 degrees	1.00	...
26 to 27.9 gravity at 60 degrees	.95	...
23 to 25.9 gravity at 60 degrees	.80	...
Below 23 gravity at 60 degrees	60	...

WYOMING-MONTANA

Wyoming

Elk Basin	1.45	1.70
Grass Creek	1.45	1.70
Rock Creek	1.20	1.35
Lance Creek	1.40	1.70
Mule Creek	.60	.95
Big Muddy	1.00	1.25
Salt Creek	1.10	1.35
Osage	1.40	1.80
Hamilton Dome	1.10	1.35
Pilot Butte	.75	1.10
Lander	.45	1.00
Torchlight-Greybull	1.40	1.80

Montana

Sunburst	.90	.80
Cat Creek	1.45	1.85

CANADIAN CRUDE

Oil Springs	2.30	2.45
Petrolia	2.23	2.38

*Plus 2½ cents bounty.

If it's a good stunt, pass it along—Page 23 tells how

BEHIND the Sinclair trade-mark are Sinclair's Refineries producing a line of oil products of high uniform quality—a quality that is maintained in every can, barrel or tank car showing the Sinclair trade-mark.

SINCLAIR REFINING COMPANY

New York: Sinclair Oil Bldg., 45 Nassau St. Chicago: 111 W. Washington St.

Cable Address: "Lucent"

Refineries:

EAST CHICAGO, INDIANA
KANSAS CITY, KANSAS
COFFEYVILLE, KANSAS
CUSHING, OKLAHOMA
MUSKOGEE, OKLAHOMA
HOUSTON, TEXAS
WELLSVILLE, N. Y.
PHILADELPHIA, PA.
(under construction)

SINCLAIR OILS

Similarity of Structures In Mexia Fault Zone

(Continued from page 28.)

holes which eventually turned out to be dry. Great care should be exercised in guarding against this error. The same mistake was made in the case of many holes drilled far east of the Mexia fault zone, where the Taylor chalk, some 800 or 900 feet above the Austin was thought to be Austin.

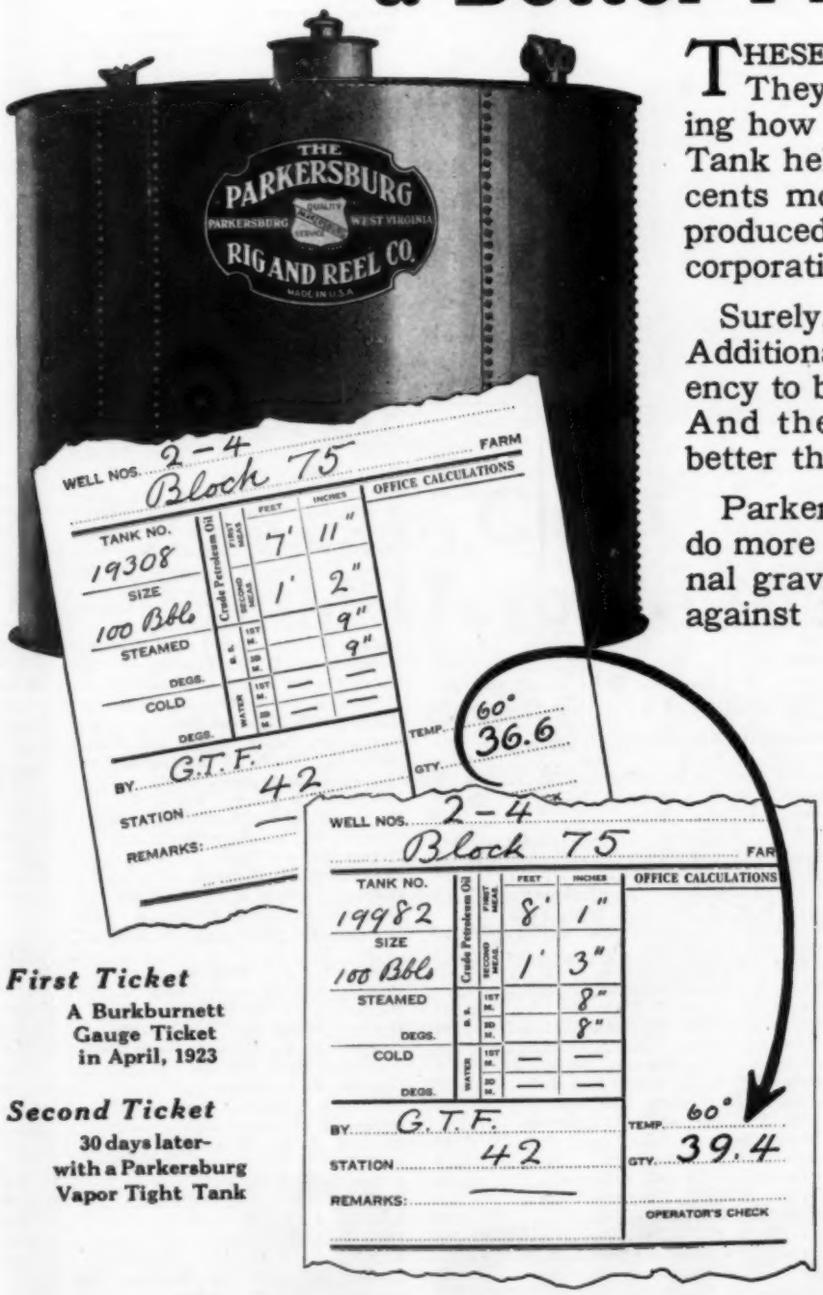
3. Suppose that on a certain property a well has been obtained producing from the Woodbine sand and that the log shows the Austin chalk and Eagle Ford of normal thickness and at about the depth where they should be in a well several hundred feet east of the fault on the assumption that the fault has its usual characteristics, the proper procedure in developing the property would be to drill the next location westward (either due west, or SW, or NW). If this second test revealed normal stratigraphic conditions, drill the next location westward again, and proceed in this manner, either to the west boundary of the lease or until the last hole drilled shows relatively thin chalk. With the log as a basis for calculations, estimate whether the next location west of this thin chalk well could be safely drilled, assuming that the fault has a maximum dip. The method is illustrated in Fig 8. Here ab is the chalk in the last well drilled. (N1), bc is the Eagle Ford and cd is the producing zone in the Woodbine formation. The record (in the figure) starts at 1700 feet below sea level. The figure (except for width of logs) is drawn to true scale, vertical and horizontal. The chalk is only 350 feet thick, but the Eagle Ford has normal thickness. The fault cuts the top of the chalk (cf. D, Fig. 2). Therefore, from a draw a line ae, to represent the fault, making an angle of 65 degrees with the horizontal, which would probably be its maximum dip. Three hundred feet to the west of N1 draw N2 to represent the position of the next hole that would be drilled, going westward. If the fault line (ae) cuts N2 above the probable position of the Woodbine pay zone (st), the drilling of this well, N2, is fairly safe.

Suppose that N2 is drilled and that its log shows very thin and rather low chalk. To determine whether we could drill another location to the west, construct a vertical cross-section (Fig. 9) with the logs of wells N1 and N2 plotted correctly to natural scale. From a (the same as a in Fig. 8) draw ah and ai and produce these lines to g and f, respectively. These lines mark the limits within which the fault must lie, if it is essentially straight in cross-section. We can not tell whether it cuts the chalk in well N2 at h or at i or between h and i. Draw N3 to represent a well at the next location westward, here 300 feet from N2. The fault line af would cut the Woodbine pay zone some distance east of location N3, and fault line ag would cut this pay zone practically in N3. In the first case, N3 would probably be a dry hole in this pay zone, and in the second case N3 might be dry, or it might be a well in the drag of the pay zone, essentially in the fault. In either case it might run into water under strong pressure, a feature not uncommon in the fault zone. Location N3 would therefore best be left undrilled until possibly later development showed that the drag zone was productive in the particular district or that deeper drilling might penetrate a productive zone below that represented in Figs. 8 and 9 and still east of the fault.

By graphic calculations of this kind very important recommendations have been made either for or against the drilling of offset wells, as the case may be. There is, of course, always a danger of taking the logs too literally. They must be studied with the fact clearly in mind that even those which are most carefully recorded may be incorrect within certain limits of error. Consequently, in correlating, allowance for such errors should always be made on the conservative side. This was the reason for our using the maximum probable dip of the fault—65 degrees—in Fig. 8. The drilling of N2, however, demonstrated that the fault dipped not more steeply than 56 degress and not less than 51 degrees. (See Fig. 9.)

The dip of the fault is at right angles to the strike of the fault. If the row of wells, such as that considered in the section just described (Figs. 8 and 9) is at right angles to the strike or average trend of the fault, the dip of this fault as shown in the section or plot is virtually correct, but if this row of wells is oblique to the fault trend, then the inclination of the fault is less in the diagram, as plotted from well log to well log, than the true dip. Fig. 10 may be used for roughly estimating the true dip of the fault in cases of the latter type.

A Better Tank *and* a Better Price for Oil



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A Burkburnett Gauge Ticket in April, 1923

Second Ticket
30 days later—with a Parkersburg Vapor Tight Tank

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Wilson
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Stroud
Wewoka

ARKANSAS
*El Dorado
Louann
Smackover
McNeil

MONTANA
Sunburst
†Winnett

*District Offices ‡Frick-Reid Supply Co. †Continental Supply Co.

Oklahoma Quarterly Production Report

(Continued from page 30)

Company and Location—	Barrels
Emery Bros., Bradford, Pa.	2,949
Emig, C. H., New York, N. Y.	289
Empire Gas & Fuel Co. (Del., Okla Div.) Bartlesville	154,849
Empire City Co., Tulsa	1,036
Enfisco Oil Corp., Tulsa	16,737
English Drilling & Prod. Co., Cement	14,643
Enterprise Transit Co., Titus, Pa.	5,966
Etchen, Chas. A., Coffeyville, Kan.	81
Evidence Oil Co., Caney, Kan.	843
Exchange Oil & Gas Co., Tulsa	1,654
Exchange Trust Co., Rec., Tulsa	72
Faltinson, A., Tulsa	5,418
Fan Elva O. & G. Co., Pittsburgh, Pa.	3,386
Farco Oil Co., Ltd., Okmulgee	470
Farmer, A. L. & A. E. Duran, Tulsa	502
Farren, C. F., Tulsa	12,680
Fay Drilling Co., Tulsa	281
Federal Oil Co., Cleveland, Ohio	305
Fee Oil Co., Muskogee	271
Fellowship Oil & Drlg. Co., Tulsa	287
Fern Oil & Gas Co., Yale	2,083
Fidelity Oil Corp., Louisville, Ky.	130
Fifty-Nine Osage Oil Co., Bartlesville	42,806
Finance Oil Co., Pawhuska	23,926
Finance Oil Co. & Livingston Oil Co., Pawhuska	686
Finch, F. L., Tulsa	6,667
First National Bank, No. 3, Cleveland	52
Fisher Oil Co., The, Pittsburgh, Pa.	1,195
Fitzgerald, D. C., Trustee, Ardmore	12,994
Fitzgerald, H. L., Tulsa	187
Fitzgerald, Jno. W., Bartlesville	422
Fitzgerald & Withington, Tulsa	654
Flanagan & McGrath, Delaware	258
Flat Rock Oil Co., Tulsa	1,735
Flesher Petroleum Co., Tulsa	24,047
F. & W. Oil Co., Tulsa	2,800
Force Oil Co., Tulsa	214
Forster, S. F., Dallas, Texas	1,070
Fort Ring Oil & Gas Co., Ft. Worth, Texas	7,345
Fortuna Oil Co., Dallas, Texas	168,654
Forty-Five Oil Co., The, Bartlesville	2,392
Forty-Five Oil Co., The, & E. S. Bell, Bartlesville	4,832
Forster, H. V., Bartlesville	44,781
Foster & Davis, Inc., Bartlesville	11,195
Foster & Leech, Bartlesville	309
Foster Inv. Co., Tulsa	38,858
Four Point Oil Co., Lawton	191
Fox, W. T., Sapulpa	623
Fox Petroleum Co., Ardmore	6,389
Franchot, D. W. & Co., Tulsa	29,504
Francis, W. C., Skiatook	238
Franklin Oil Co., Franklin, Pa.	410
Franklin Oil & Dev. Co., Nowata	1,528
Frederick, H. B., Tulsa	39
Friedman, Loues, Tulsa	288
Friedman, Loues, Oil Co., Tulsa	1,733
French, M. C., Okmulgee	870
Furlow Development Co., Enid	1,491
Gaffney, H. E. & H. B., Bradford, Pa.	3,835
Gaffney, Olive, Bradford, Pa.	1,749
Galbraith, H. H., et al, Independence, Kansas	4,119
Galvez Oil Corp., Tulsa	16,496
Gamo Oil Co., Claremore	428
Gant, Walter H., Ardmore	8,409
Gardner, J. K., Okmulgee	1,144
Gardner & Avery, Tulsa	347
Gardner Oil Co., Tulsa	142
Gardner Petroleum Co., St. Louis, Mo.	24,073
Garis, Ralph, Chelsea	67
Gates Oil Co., Ardmore	36,624
Gates Oil Co., Denver, Colo.	782
Gates-Cook Drilling Co., Okmulgee	740
Geneva Pearl Oil & Gas Co., Ardmore	3,485
Genevra Oil Co., The, Bartlesville	467
Georgia Oil & Gas Co., Copan	3,792
Georgia-Okla. Oil Synd., Tulsa	69
Getty, Geo. F., et al, Tulsa	863
Giddings, F. C., W. H. Gray, A. B. C. Dagne, Chas. F. Egan & R. A. Welch, Tulsa	1,032
Gilcrease Oil Co., Tulsa	25,435
Gillespie, F. A. & Sons, Tulsa	36,673
Gillespie, Joe, Coffeyville, Kansas	72
Gillette, J. M., Tulsa	3,467
Gilliland Oil Co., Tulsa	96,712
Gilmer Oil Co., Lamine, Mo.	101
Gilmer Oil Co., Ardmore	33,330
Gladstone Oil & Ref. Co., Shreveport, La.	2,900
Glass & Harmon, Nowata	3,982
Glass, Reed & McSpadden, Nowata	536
Gled Oil Co., Tulsa	850
Glidden, H. P., Tulsa	1,806
Godfrey, F. L., Enid	1,044
Godshall, E. G., Blackwell	85
Goforth, W. A., Rec. Meridian Pet. Corp., Tulsa	28,012
Goldie O. & G. Co., Kansas City, Mo.	829
Goodyear Oil Co., Tulsa	1,899
Gordon, Mary Louise, Beverly Hills, Calif.	2,235
Groman, M., Trustee, Stahl & Horrigan, Ardmore	1,650
Gorton, Trust, The, Ardmore	12,683
Graham, Jas. H., Bartlesville	7,443
Graham Mineral Trust, Ardmore	2,853
Grand Duke Prod. Co., Muskogee	848
Great Southwestern Pet. Co., Okla City	357
Gregg, C. O., Ardmore	6,167
Greis, H. N., Tulsa	78
Grieves, Jno. B., Terlton	6,549
Griffin Prod. Co., The, Tulsa	3,974
Grimes, W. Baker, Tulsa	184
Grimes, Blair, et al, Tulsa	492
Grimes & Gillespie, Tulsa	19,807
Grimes, Parent, Gillespie & Dickson, Tulsa	292
Guaranty Oil Co., Sand Springs	238
Gurley, H. S., Blackwell	4,092
Gypsy Oil Co., Tulsa	2,986,789
Halden Oil Co., Tulsa	869
Hales, W. T., Oklahoma City	81,054
Halfast, E. W., Muskogee	192
Halfmoon Oil Co., Bartlesville	556
Hall & Briscoe, Inc., Chickasha	2,147
Hall-Briscoe-Nelson Drlg Co., Chickasha	3,152
Hallett Pet. Co., Tulsa	979
Halsell Oil & Gas Co., Vinita	986
Hamburger Bros., New York, N. Y.	26
Hamill, A. W., Tulsa	20
Hammer, A. A., Tulsa	301
Hammat, D. M. & Co., Tulsa	1,453
Hamon, Jake L. Jr., Ardmore	1,354
Hamon, Jake L., Estate, Ardmore	29,799
Hancock Oil Co., Tulsa	741
Hand, H. M., Tulsa	154
Hane, C. E. Agt., Tulsa	11,628
Haner, J. C., Muskogee	115
Haner Oil & Refining Co., Muskogee	115
Haney & H. C. Ewers & Sons, Peru, Kansas	223
Harnis Oil Co., Tulsa	283
Harland Oil Co., Pittsburgh, Pa.	35,179
Harmon, C. C., Nowata	1,502
Harmon, W. J., et al, Okmulgee	12,936
Harrington, Lillian F., Tulsa	369
Harrington, Lillian F. No. 5, Tulsa	199
Harrington, Wm., Marietta, Ohio	158
Harris, Mrs. L. C., Rising Sun, Ind.	227
Harris, T. D., Trustee, Okmulgee	39
Harris & Haun & O'Shaughnessy, Blackwell	2,565
Harris-Hays Co., Okmulgee	1,795
Harris-Strawn Oil Co., Ardmore	4,292
Hartman & Mann, Pittsburgh, Pa.	333
Hartz, Ben, Baltimore, Md.	167
Hartwell, E. P., Tulsa	45,168
Haskell, F. K., Bartlesville	68
Haskell, F. K., Agent, Bartlesville	1,237
Hastings, W. T., Marietta, Ohio	316
Haubert, H. J., Tulsa	356
Hauel, F. A., Co., Okmulgee	649
Hayden, Hayward, Tulsa	468
Hayner Petroleum Co., Tulsa	1,029
Hays Oil Co., The, Oil City, Pa.	1,000
Hazen, S. P., Tulsa	200
Hazlett, A. J., Morris	3,235
Hazlett, Bradford & Frazier Bros., Eldorado, Kans.	3,397
H. C. W. Oil Co., Chelsea	574
Healdton Oil & Gas Co., Enid	110,126
Healdton Field Oil Co., El Reno	1,085
Heena, J. A., Ardmore	2,272
Hefner Co., The, Ardmore	1,385
Heggem & Davis, Tulsa	4,852
Henderson Co., The, Nowata	72
Henderson & Holden, Eldorado, Kan.	1,196
Henry Oil Co., The, Tulsa	12,241
Henry & Avers, Tulsa	951
Hennessey, J. E., Okmulgee	1,460
Hennessey, J. E. & J. H. Thompson, Okmulgee	519
Henson Prod. Co., Tulsa	1,427
Henton, E. L., et al, Chelsea	2,325
Henton & Weible, Chelsea	504
Hewitt, W. M., Okmulgee	4,717
Hewitt Mineral Trust, Ardmore	1,931
Hibbard, S. B., S. S. Glasscock and J. R. Hammond, Trts, Kansas City, Mo.	1,405
Hickernell, G. W., Warren, Pa.	601
Higgins Oil & Fuel Co., and Pulaski Oil Co., Tulsa	3,026
Highway Oil Ref. Corp., Tulsa	1,521
Hilde Oil & Gas Co., Okmulgee	1,706
Hill Oil & Gas Co., Tulsa	143,730
Hillside Oil Co., Tulsa	5,548
Hillside Oil, Gas & Coal Co., Aurora, Illinois	871
Hilltop Oil Trust, Ardmore	9,710
Hinerman & Marshall, Tulsa	7,202
Hinkle, F. V., Okmulgee	1,643
Hinkle, Fitzgerald & Westheimer, Ardmore	16,097
Hippodrome Oil Co., Tulsa	922
Hiram Oil & Gas Co., Kellyville	1,571
Hiteshew, W. B., Robinson, Ill.	830
H. & M. Petroleum Co., Tulsa	854
Hoefer, C. C., Kansas City, Mo.	70
Hoffer Oil Corp., Ft. Worth, Texas	170,963
Hage, J. B., Nowata	273
Hojoco Oil Co., Tulsa	140
Hollingsworth, Geo. C., Rec. Ardmore	1,580
Hollis, Elsie B., Los Angeles, Cal.	138
Holm, Martin A., Chicago, Ill.	110
Holm, Coombs & Chapman, Bartlesville	835
Holmes, B. F. & Co., Lyons, Kansas	715
Holmes Walter E., Tulsa	3,563
Holmes Oil Co., The, Lyons, Kansas	119
Holtzendorff, C. B., Claremore	79
Homaokla Oil Co., Oklahoma City	30,372
Home Gas Co. of Cushing, Cushing	18,442
Hoot Oil Co., Warren, Pa.	58
Hornecker, Henry, Tulsa, Okla.	927
Hornecker, Frederick & Hagler, Tulsa	70
Hornecker & Graham, Tulsa	471
Hornecker & Hagler, Tulsa	2,241
Hornecker, Miller & Dunnigan, Tulsa	355
Horner, W. H., Cleveland	145
Houser, M. A., Tulsa	629
Howard, O. R., Tulsa	17,067
Howard, Duffield & Berlin, Tulsa	7,191
Howarth, F. O. Oil & Gas Co., Tulsa	11,613
Huckleberry, J. H., No. 5, Kansas City, Mo.	17
Hudson Oil Co., Wellsville, N. Y.	222
Hudson, Grimes, et al, Tulsa	559
Hughes, M. S., Bristow	128
Hughes, Roland A., Cygnet, Ohio	513
Hughes, R. A., Gelta & Orra Brecht, Cygnet, Ohio	355
Hughes, R. H., Tulsa	84
Hughes & Schwyn, Cygnet, Ohio	542
Hulen, H. E., Bartlesville	1,126
Hulings, F. W., Okmulgee	543
Hulings, F. W., Trustee, Okmulgee	225
Hulings, Mark C., Tulsa	134
Hulings & Smith, Okmulgee	487
Hull, J. A., Tulsa	171
Hull, J. A. Co., Tulsa	281,571
Hull, J. D., Tulsa	66
Humble Oil & Ref. Co., Houston, Tex.	242,047
Hummel, Chas. S., Chelsea	606
Hunt & Grastorf, Colorado Sprgs, Col.	1,383
Hurdle, H. J., Mounds	180
Hurford, G. H., Tulsa	90
Hutchison, E. A., Trustee, Bartlesville	517
Hutchison, L. L., Trustee, Kanola O. & Ref. Co., Tulsa	3,514
Hutt, Annie M., Ft. Worth, Texas	224
Hutt, E. F., Kansas City, Mo.	224
Hutt, J. E., Kansas City, Mo.	224
Hyer, Fred, Ft. Worth, Texas	1,579
Ideal Oil & Gas Co., Ardmore	2,151
Ideal Royalty Oil, Tulsa	1,816
Illata Oil Co., Vinita	117
Illinois Ref. Co.-Kawfield Oil Co., Cushing	18,934
Imo Oil & Gas Co., Covington	9,352
Independence Oil Co., Independence, Kansas	1,833

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Company and Location—	Barrels
Independent Oil Co., Okmulgee	201,640
Indiahoma Ref. Co., Bankrupt-J. H. Ober, Trustee, St. Louis, Mo.	16,077
Indian Terr. Ill. Oil Co., Bartlesville	48,312
Indiana Oil & Gas Co., Tulsa	35,262
Interstate Oil & Gas Co., Bartlesville	4,820
Invader Oil Corp., Muskogee	1,824
Iowa Oil Refining Co., Healdton	2,775
Iron Mountain Oil Co., The, Tulsa	25,062
Irvine, Jas., Sapulpa	281
Irwin, Jno. S., Bartlesville	1,108
Irwin-Miller, Bartlesville	1,154
Jackson, L. B., Sapulpa	647
Jackson, W. E., Wilson	34
Jackson, Wise & Bovaird, Sapulpa	2,590
Jackson, Wise & Byers, Sapulpa	132
Jackson, Wise & Farr, Sapulpa	165
Jackson, Wise & Snedden, Sapulpa	1,186
Jackson, Wise & Markham, Sapulpa	5,554
Jane Oil Co., Rouseville, Pa.	2,031
Jankawsky, Mose, Tulsa	3,773
Jarvis & Holm, Inc., & Darby Pet. Co. of N. Y., Tulsa	19,744
Jeff Oil Co., Chelsea	922
Jeffrey, E. B., Trustee, Oklahoma City	2,819
Jelinek, Jno., Nowata	328
Jennie Oil Co., Chelsea	248
Jennings, R. G., Pittsburgh, Pa.	4,335
Jennings, R. G. & Snowden & McSweeney, New York, N. Y.	5,644
Jensen, P. W., Chelsea	429
Jenson, H. A., West Tulsa	598
Jim Glenn Oil Co., Tulsa	9,282
Johnede Oil Co., Tulsa	36,072
Johnson, Mrs. C. L., Kansas City, Mo.	89
Johnson Farm Oil Co., Warren, Pa.	1,023
Johnson, T. E., Memphis, Tenn.	36
Johnson, W. B., Okmulgee	34
Johnson Oil Refining Co., Chicago, Ill.	3,189
Johnston, T. A. & Co., Okmulgee	7,460
Jomack Oil Co., Bristow	88,809
Jones, R. C., Cushing	1,000
Jordon, J. G., et al, Okmulgee	649
Josey Oil Co., Tulsa	88,295
Kahle, Clyde, Cyril	1,275
Kano Oil Co., Nowata	221
Kanola Oil & Ref. Co., Tulsa	1,670
Kansas-Okla. Cons. Oil Co., Minneapolis, Minn.	804
Karnes, H. E., Independence, Kans.	57
Kathryne Oil Co., The, Tulsa	358
Katy Oil & Gas Co., Bartlesville	1,830
Kay Oil Co., Blackwell	66
Kay County Gas Co., Ponca City	636,254
Kay & Kiowa Oil Co., Tulsa	13,424
Keenan, J. R., Tulsa	41
Keener Oil & Gas Co., The, Tulsa	44,461
Keeter, J. A., Atlanta, Ga.	743
Keith, J. H., Coffeyville, Kans.	143
Kelly, B. F., et al, Tulsa	245
Kemp, E. R., deceased, Tulsa	770
Kennedy, H. W., Tulsa	807
Kennedy, J. L., Estate, Tulsa	240
Kennedy, J. L. & S. G., Tulsa	2,864
Keno Oil Co., Tulsa	2,634
Kerull Oil Co., Tulsa	2,871
Kewanee Oil & Gas Co., The, Titus, Pa.	121,674
Keys Oil Co., Independence, Kans.	314
Keystone Oil & Gas Co., Independence, Kans.	129
King, John, Receiver, Tulsa	17,520
King & Harrington, Tulsa	280
King Philip Oil Co., New Bedford, Mass.	471
Kingsley, W. L., Kansas City, Mo.	242
Kingsmith Refining Co., Tulsa	2,043
Kingwood Oil Co., Okmulgee	69,940
Kinney, Geo., Trustee, Tulsa	18,595
Kinney, Geo. & C. W. Kingsbury, Sand Springs	172
Kinney, Geo., C. W. Kingsbury & E. M. Mansell, Sand Springs	2,256
Kinney, Wood & McIntyre, Sand Springs	271
Kirk Oil Co., Ardmore	32,170
Kirkwood & Kennedy, Tulsa	730
Kline & Brown, Inc., Tulsa	7,298
Knaell, J. C., Tulsa	523
Knappenberger, D. L., Tulsa	70
Knappenberger, W. E., Tulsa	70
Knickerbacker Oil & Gas Co., Tulsa	1,502
Knupp Oil Corp., Warren, Pa.; J. J. Lubell, N. Y., and Highrade Petr. & Gas Co., Tulsa	1,063
Knupp Oil Co., Warren P. & Phillips Pet. Co., Bartlesville	783
Kohlenberg, W. C., Tulsa	52
Kornegar, W. H., Trustee, Vinita	132
Kraeer Oil & Gas Co., Bartlesville	2,610
Kuhn, J. H., Tulsa	1,021
Kunkel, W. A., Bluffton, Ind.	200
Lackawanna Prod. & Ref. Co., Scranton, Pa.	500
Lahman Bell Oil Co., Dewey	262
Lambery, E. J., Tulsa	5,515
Lambert Oil & Gas Co., Tulsa	10,758
Lamberton, J. S., Tulsa	385
Lamberton, W. J., Estate, Tulsa	70
Lamberton & Lasater, Tulsa	68
Lancaster & Grimes, Tulsa	592
Landon, A. M., Independence, Kans.	10,410
Lane, E., Nowata	2,184
Lane Oil Producing Co., Chicago, Ill.	3,023
Lane & Wasson Co., Ardmore	4,921
Large Oil Co., Bartlesville	3,371
Larkin, C. L., Bartlesville	1,257
Larkin, J. J., Tulsa	691
Larkin Oil Co., Tulsa	81
Lashley, Edmund, Tulsa	82
Lashley & Rambo, Tulsa	5
Lasoya Oil Co., Altoona, Pa.	1,808
Lathrop, Joe, Ardmore	774
Latona Oil Co., Tulsa	422
Laurel Oil & Gas Co., Tulsa	557,931
Lawson, E. B., Nowata	16,752
Lawson, E. B. & Sunset Prod. Co., Nowata	220
Lawson & Cowles, Nowata	1,020
Lawson & Mancill, Nowata	268
Lawson & Reed, Nowata	374
Lawson & Whitehill, Nowata	2,271
Lawton Corp., Oklahoma City	1,043
Lea Drilling Co., Tulsa	831
Le Bosquot, J. E., Estate, Tulsa	271
Lee, Frank W., Tulsa	16
Le Fever, M. M., Marietta, Ohio	678
Lennox Oil & Gas Co., Lennox, S. D.	425
Leo Oil & Gas Co., Sapulpa	718
Leonard Pet. Co., Washington, Pa.	1,175
Leopold & Brett, Muskogee	247
Letson Oil Co., Dewey	643
Levant Oil Co., Ardmore	15,767
Levy, I. B., Trustee, Oklohamo City	3,633
Lewis Oil Co., Pittsburgh, Pa.	13,816
Lewis Clark Pet. Co., Oklahoma City	11,864
Liberty Oil & Gas Co., Warren, Pa.	3,411
Lightning Creek Oil & Gas Co., Wellsville, N. Y.	336
Lima Oil & Gas Co., Bartlesville	4,908
Lincoln Oil & Gas Co., Tulsa	2,350
Link Oil Co., The, Tulsa	43,968
Lippa, Arthur, Tulsa	271
Livingston Oil Corp., Tulsa	2,655
Loar, W. N. & Co., Okmulgee	2,503
Local Oil Co., Warren, Pa.	1,342
Loffland, J. M., Tulsa	1,454
Loffland, T. S., Tulsa	301
Loffland, T. S., No. 2, Tulsa	276
Lomore Oil Co., Ardmore	3,749
Lone Star Gas Co., Dallas, Texas	31,192
Long, A. V., Tulsa	51
Lorraine Pet. Co., Tulsa	105,518
Lotridge, Edw. L., Tulsa	65
Louvain Oil Co., Bartlesville	650
Love, L. H., Ardmore	9,735
Lovell, J. A., Marietta, Ohio	504
Lovell, Paul, Estate, Dot L. Admx., Marietta, Ohio	1,103
Lovett Oil Co., Nowata	1,536
Lowrie & Barnes, Robinson, Ill.	255
Lowrie, Barnes & Titus, Robinson, Ill.	1,787
Lowry Oil Corp., Muskogee	5,960
Lowry-Barnes Corp., The, Muskogee	995
L. S. M. & S. Oil Co., Tulsa	272
Lucado Oil & Gas Co., Coffeyville, Kans.	285
Lucky Leaf Oil & Gas Co., Blackwell	1,593
Lucky Scott Oil & Gas Co., Independence, Kans.	8,836
Ludey, Chas. A., Marietta, Ohio	2,953
Lynch, C. B. & Co., Tulsa	1,139
Lyon, Burt W. & Mary J., Los Gatos, Cal.	822
Lyon-Leonard Oil Co., Los Gatos, Cal.	109
Lyon & McKeever, Los Gatos, Cal.	189
Lyons Pet. Co., Denver, Colo.	12,426
McAnsh, Andrew, Co., Chicago, Ill.	507
McBrayer, T. H., Okmulgee	85
McBride, W. C., Inc., St. Louis, Mo.	4,066
McCallister, C. T., Sapulpa	68
McCaskey & Wentz, Ponca City	375,282
McClintock, H. H., et al, Bartlesville	1,799
McClintock, R. Otis, Tulsa	397
McConnell, Carol S., Tulsa	1,535
McConnell, Grace M., Okla. City	138
McCormick, J. A., Trustee, Muskogee	1,188
McCormick, Matt, Nowata	196
McCullough, E. E., Muskogee	478
McDonald, J. H., Muskogee	609
McFarlin & Chapman, Tulsa	500
McGill, H. R. & Ruth Gilbert, Tulsa	2,872
McKay, Margaret C., Gdn., Sapulpa	1,024
McKeon, P. G., Tulsa	1,594
McKeown & Cuckow, Ada	980
McKes Oil & Gas Co., Ardmore	2,403
McKinney, Geo. J., Tulsa	27
McLane Farm Oil Co., Tulsa	1,123
McMahon, D. F., Tulsa	31
McMahon, C. L., Okmulgee	3,468
McMahon, C. L., Inc., Okmulgee	105,509
McMahon, C. L. & Kennedy, Trustees, Okmulgee	40
McMahon, Ed. J., Denver, Colo.	41
McMahon, J. L., Wichita Falls, Texas	95
McMahon, J. V., Tulsa	62
McMan Oil & Gas Co., Tulsa	195,830
McManus, C. T., Nowata	131
McMullen, R. V., H. E. Wilcox, Jas. Loriaux & H. G. Wilcox, Tulsa	76
McNutt, J. P., Morris	2,726
McNutt, J. P. & A. L. Davis, Morris	274
McOwen, Bernard, Estate, Buffalo, N. Y.	1,270
McQueen, I. R., Oklahoma City	22,722
McSpadden, T. R., Nowata	142
Mack Oil & Gas Co., Bartlesville	577
Magna Oil & Ref. Co., Tulsa	9,936
Magnolia Pet. Co., Dallas, Texas	1,645,714
Maire, F. L., Lima, Ohio	248
Maire Bros. & Ebling, Bartlesville	3,274
Majestic Oil & Gas Co., DuQuoin, Ill.	1,127
Mallory, J. F. & J. N. Stewart, Parkersburg, W. Va.	528
Ma-Lou Oil Co., Pittsburgh, Pa.	3,354
Mancill, H. E., Bartlesville	107
Margay Oil Corp., Tulsa	41,660
Margulies, Larry J., Tulsa	1,061
Marietta Oil Co., The, Marietta, Ohio	1,616
Mark, Clayton, Muskogee	733
Markham, J. H., Jr., Tulsa	57,164
Markham, J. H., Jr., et al, Tulsa	6,111
Marland Ref. Co., Ponca City	356,334
Marshall Oil Co., Tulsa	243
Martin, Emma L., Fresno, Calif.	84
Martin, J. E., Tulsa	4,983
Martin, L. J., Tulsa	271
Martin, S. A., Oil & Gas Co., Chelsea	1,248
Mary Parker Oil Co., Chelsea	435
Mason, Allen & Newton C. Fassett, New York, N. Y.	197
Mason, D. B., Tulsa	15,756
Mason, Fred T., Tulsa	40
Mason-Beauchamp Oil Co., Tulsa	446
Massey, Alexander, Kansas City, Mo.	682
Matteson, Chas. D., St. Paul, Minn.	780
Maxson, E. E., Trustee, Owasso	2,471
Maxwell, D. G., Bartlesville	1,481
Maxwell, D. G. & J. W. Thompson, Bartlesville	812
May, J. T. & C. L. Benbow, Muskogee	8
May, Max, Tulsa	80
Mead, C. J., Okmulgee	153
Mechling, C. A., Tulsa	755
Mecling & Berlin, Tulsa	1,335
Meissner, Wm. H., Trustee, Tulsa	38
Melba Oil Co., Tulsa	2,207
Mercer Oil Co., Oklahoma City	473
Meridian Oil Co., Inc., Jennings, La.	269
Merrick, F. W., Adrmore	13,828
Merrick, F. W. & R. W. Coe, Trustees, Ardmore	17,273
Merrick, Ward, et al, Ardmore	3,339
Messner, M. B. & L. S. Clough, Bartlesville	569

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Company and Location—	Barrels
Metropolitan Pet. Co., Tulsa	668
Metzger, Louis L., Muskogee	77
Midget Oil & Gas Co., Republic, Mo.	1,386
Mid-Kansas Oil & Gas Co., Findlay, O.	346,747
Midland Oil Co., Bartlesville	160,263
Midland Securities Co., The, Tulsa	11,457
Milroy Pet. Co., Duncan	1,282
Minnehaha Oil Co., Menasha, Wis.	706
Minnehoma Oil & Gas Co., Tulsa	98,140
Minshall, E. R., Tulsa	4,550
Minshall, E. R. & Co., Tulsa	11,423
Minshall Oil & Gas Co., Tulsa	3,029
Misener, F. D., et al, Tulsa	10,062
Mission Oil & Gas Co., Santa Barbara, Calif.	382
Mitchell, Mark D. & Co., Independence, Kans.	671
Mitchell & Murrow, Independence, Kans.	179
Modern Oil Co., Wellsville, N. Y.	1,292
Modesitt Oil Co., Okmulgee	530
Mohawk Pet. Co., Tulsa	3,591
Monroe, Jas. E., Trustee, Tulsa	1,095
Monte Cristo Oil Co., Tulsa	555
Montezuma Oil Co., Tulsa	632
Montrose Oil Ref. Co., Inc., Shreveport, La.	5,397
Mooney & Holtzendorff, Claremore	553
Moore, Clint, Tulsa	14,412
Moore, Frank L., Tulsa	15,700
Moore, Mrs. G. E., Tulsa	580
Moore Pet. Co., Tulsa	70
Moore Ref. Co., Arkansas City, Kans.	3,778
Mosely, C. F., Bartlesville	3,248
Morey, E. E., Tulsa	287
Morley, W. & Son, Bartlesville	172
Moroney Bros., Okmulgee	76
Morrison & Jackson, Sapulpa	6,744
Morton & Co., Bartlesville	9,222
Morton Oil & Gas Co., Pittsburgh, Pa.	257
Morton Pet. Co., Bartlesville	1,870
Mound Oil & Gas Co., Tulsa	2,532
Mountain Creek Oil & Gas Co., The, Coweta	67
Mountain State Oil Co., Bartlesville	44,914
M. T. C. Oil & Gas Co., Coffeyville, Kans.	2,215
Mudge Oil Co., Pittsburgh, Pa.	23,334
Mul-Berry Oil Co., Cushing	14,846
Mullendore, Bessie, Cleveland	219
Mullendore, E. C., Cleveland	103
Mullendore, R. F., Hominy	126
Murphy Oil Co. of Pennsylvania, Philadelphia, Pa.	162
Murry, John M., Trustee, Tulsa	465
Muskogee Oil Corp., Muskogee	567
Mutual Oil Co., Denver, Colo.	223,674
Myers, C. M., Tulsa	833
Myers Oil & Gas Co., Pittsburgh, Pa.	589
Myrton Oil Co., Kensington, Md.	67
Nancy Oil Co., Sapulpa	475
Neely, The Lemon G., Company, Tulsa	6,729
Neubeck, W. L., Marietta, Ohio	334
New Haven Oil Co., Bartlesville	3,631
New Pocahontas Oil & Gas Co., Oklahoma City	318
New Years Oil & Gas Co., Kensington, Md.	323
Newlin & Ludey, Tulsa	80
Nicaragua Oil Co., Freeport, Ill.	757
Niece, Chas. E., Tulsa	1,066
Night & Day Oil Co., Lawton	465
Nintey Nine Oil Co., Tulsa	733
Noble, Lloyd, Ardmore	313
Noble Oil & Gas Co., Tulsa	13,612
Nolan-Jackson, Sapulpa	1,334
Norman, Theo. A., Palmer, Mass.	475
North Baltimore Oil & Gas Ass'n., Okmulgee	9,991
Northland Gasoline Co., Tulsa	5,143
Northland Oil Co., Kane, Pa.	533
Northrop, Mrs. Mary S., Tulsa	151
Northrop Oil & Gas Co., Tulsa	436
Northrup, C. M. Chicago, Ill.	138
Nowata Oil & Refining Co., Tulsa	52,938
Norwood Oil Co., New York, N. Y.	13,010
Nyanza Refining Co., Wilson	2,033
Oak Ridge Oil & Mining Co., St. Louis, Mo.	289
Obins & Weber, Bartlesville	26,181
O'Brien, P. J., Tulsa	138
O'Connor, Dennis & Sara, Butler, Pa.	1,333
Octo Oil Co., Bartlesville	471
Odell, C. C., Trustee, Morris	1,115
Oglesby, Robert, Tulsa	7,123
Ohio-Osage Oil Co., Ochelata	3,879
O'Hornett, C. J., Henryetta	1,167
Oil State Petroleum Co., Enid	39,836
Oklavania Oil Co., Tulsa	22,396
Oklauca Oil & Gas Co., Jackson, Tenn.	207
Okla-Penn Oil Co., Tulsa	1,373
Oklahoma Producing & Refining Corp., Columbus, Ohio	336,495
Oklahoma-Texas Refining Co., The, Grandfield	44,486
Oklarado Oil Co., Okmulgee	818
Okmulgee Petroleum Corp., Okmulgee	571
Olean Pet. Co. (W. R. Page) Bristow	195,826
Olsen, Mrs. A., Drumright	802
Olsen, A. O., Ardmore	313
O'Neil Petroleum Co., Milwaukee, Wis.	307
Oregon Oil Co., Tulsa	325
Orion Oil Co., Cushing	417
O'Rourke, Ed, Tulsa	3,525
O'Rourke, E. W., Tulsa	3,525
O'Rourke, Tom, Tulsa	3,525
Osage Development Co., Bartlesville	13,299
Osage Allegheny Oil Co., Bartlesville	311
Osage Arrow Oil Co., Ponca City	1,866
Osage Producing & Refining Co., Bartlesville	5,599
Oswego Petroleum Co. et al, Tulsa	1,274
Otstot Development Co., Blackwell	3,770
Ottawa Oil Co., Wellsville, New York	323
Overton, C. H., Tulsa	1,834
Overton, C. H. & G. H. Hurford, Tulsa	325
Owl Oil Co., Loco	8,287
Owsley, D. L., Tulsa	1,363
Page, Chas. Trustee, Sand Springs	8,083
Page Oil Syndicate, Clarinda, Iowa	1,132
Page, Chas., Geo. Kinney & C. W. Kingsbury, Sand Springs	1,343
Page, Chas., C. W. Kinney, C. F. Tingley & C. B. Stuart, Sand Springs	438
Page, Chas., Geo. Kinney & C. W. Kingsbury, Sand Springs	1,770
Page, Chas., Geo. Kinney, C. W. Kingsbury & C. F. Tingley, Sand Springs	69
Painter, J. W., Nowata	425
Painter & Stager, Nowata	131
Painter, Stager & Higgins, Nowata	1,082
Panama Oil & Gas Co., Holdenville	1,024
Panhandle Refining Co., Wichita Falls, Texas	1,291
Panther Oil & Development Co., Bartlesville	168
Papoose Oil Co., Tulsa	111,310
Papoose, Swindler, et al, Tulsa	27,206
Paraffine Oil Co., Houston, Texas	8,697
Paragon Oil Co., Tulsa	6,561
Parker, D. F., Trustee, Okmulgee	282
Parks Oil Co., Chelsea	984
Patchen, M. O., Estate, Bartlesville	874
Patterson, M. R., Bartlesville	6,148
Patterson, R. A., Muskogee	14
Patterson & Swain, Bartlesville	378
Pattrell, E., Bartlesville	216
Pauls Valley Oil & Gas Co., Pauls Valley	458
Paxton Oil & Gas Co. & Theodora Oil & Gas Co.	264
Peer Oil Corpporation, Tulsa	5,480
Pelham Pet. Co., Tulsa	1,464
Penmar Oil & Gas Co., Okmulgee	11,089
Pennhoma Oil Co., Pittsburgh, Pa.	277
Pennok Oil Co., Tulsa	224,686
Pensy Oil Corp., Tulsa	2,911
Pennsylvania Oil Corp., Warren, Pa.	326
Perkins, F. E., Tulsa	1,997
Perkins, J. J., Wichita Falls, Texas	3,762
Peters, Chas. P., Tulsa	534
Peters Pet. Corp., Tulsa	55,685
Petroleum Co., The, Tulsa	5,796
Petroleum Co., The & M H. Mosier, Tulsa	14,420
Pettigrove, A. H., Dewey	1,352
Phalin, L. P., Okmulgee	786
Phillips Oil Co., Chelsea	1,621
Phillips Petroleum Co., Bartlesville	2,974,475
Phillips, Waite Company, Tulsa	271,729
Phillips & Milam, Chelsea	21,926
Pierce Pet. Corp., New York, N. Y.	4,751
Pine, R. D., Receiver, Okmulgee	171
Pine, W. B., Okmulgee	60,158
Pine, W. B., Trustee, Okmulgee	1,468
Pioneer Oil Development Co., Oklahoma City	177
Planters Oil & Gas Co., Jackson Tenn.	632
Plover Drilling Co., Bartlesville	4,832
Plumb, A. O., Depew	2,776
Plymouth Pet. Co., et al, Tulsa	15,153
Polar Producing & Gasoline Co.-S. J. Smith, Receiver, Sapulpa	1,452
Pooler Creek Oil & Gas Co., Tulsa	443
Post Oak Crude Oil & Gas Co., Logan, Iowa	1,090
Potter Oil Co., of W. Va., New York, N. Y.	30,079
Prairie Oil & Gas Co., The, Independence, Kans.	1,601,535
Prairie Oil & Gas Co., Trustee W. M. Graham Oil & Gas Co., Independence, Kansas	7,445
Prescott & Snider, Kansas City, Mo.	183
Priddy, W. M., Wichita Falls, Texas	1,336
Price, Ernest, Muskogee	302
Price, Ernest et al, Muskogee	65
Prince, C. V., Okmulgee	605
Price Oil Co., Pawhuska	8,817
Probst, Geo. C., et al, Tulsa	235
Probst, Geo. C. & Jas. B. Morrison, Tulsa	3,164
Producers & Refiners Corp., Tulsa	349,543
Progressive Producing Co., Kansas City, Mo.	582
Pulaski Oil Co., Tulsa	52,556
Purdy, R. E., Blackwell	283
Pure Oil Co., The, Columbus, Ohio	619,861
Quinlan, C. P., Tulsa	3,866
Quinlan, Felix, Tulsa	309
Rabbits Foot Oil Co., Davenport, Iowa	10,880
Ramsey Oil Co., Caney, Kans.	5,406
Ranger Oil Corp.-Okla., Tulsa	11,027
Raycomo Oil & Gas Co., Orrick, Mo.	1,011
Red, R. D., Tulsa	1,958
Red Bank Oil Co., Tulsa	144,042
Redoak Oil Trust, Ardmore	11,426
Reed, H. W., Agt., Nowata	745
Reesman, S. S., Tulsa	108
Regal Oil Co., Pittsburgh, Pa.	2,134
Regal Oil & Gas Co., Tulsa	17,835
Reinhardt, C. H., Chelsea	872
Reliance Oil Co., of Okla., Houston, Texas	7,106
Reliance Oil Co., of Texas, Houston, Texas	4,601
Reno Oil Co., Sistersville, W. Va.	2,440
Reno Oil Co. & E. J. Flynn, Sistersville, W. Va.	2,991
Republic Oil & Ref. Co., Rock Island, Ill.	333
Reynolds, W. G., Okmulgee	42
Reynolds Oil & Gas Co., The, Independence, Kans.	1,113
Rhodes, G. R., Tulsa	45,768
Rice, T. E. & Frank Brewster, Talala	500
Rice Creek Producing Co., Tulsa	747
Richards, A. M., Chelsea	2,432
Richmond Gasoline Co., Tulsa	385
Riddle, Mabel L., Estate—L. B. Riddle, Trustee, Marietta, Ohio	78
Ridley, R. C., Okla City	11,137
Rigdon, Geo. R., Kansas City, Mo.	257
Rigdon & Bruen, Kansas City, Mo.	4,804
Riner, J. J. et al, Nowata	1,298
Riverland Co., Tulsa	9,399
Robertson, Glass & Harmon, Nowata	883
Robinson, E. L., Tulsa	24,822
Robson, H. J., Wichita, Kans.	1,088
Rockland Oil Co., Ardmore	68,683
Rogan Oil Co., Tulsa	2,024
Rogers, The A. H., Estate, Webb City, Mo.	1,079
Rood, Foster & Meloy, Bartlesville	1,203
Rose, J. E., Muskogee	69
Rose City Oil Co., Memphis, Tenn.	519
Ross, C. O., Coffeyville, Kans.	582
Roth, C. E., Independence, Kans.	5,163
Roumania Oil Co., Ardmore	486
Roxana Pet. Corp., St. Louis Mo.	1,126,140
Roxoline Pet. Co., Okla. City	1,090
R. & M. Oil Co., Hominy	646
Rubana Oil Co., Wichita, Kans.	178
Ruth Fuel Company, Bartlesville	3,067
Ryan Consolidated Pet. Co., Bartlesville	19,684
Samuel, J. B. & W. B. Stewart, et al, Robinson, Ill.	389

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Company and Location—	Barrels
Sanders Oil Co., Tulsa	9,042
Sanders Oil & Gas Corp., Tulsa	836
Sanderson, M. P., Hominy	100
Sankey Oil Co., Ft. Worth, Texas	253
Savoie, T. L., Tulsa	1,634
Savoy Oil Co., Tulsa	33,231
Schaffer, Danner & Snowden & McSweeney Co., New York, N. Y.	1,333
Schermerhorn, J. B., Minneapolis, Minn.	179,166
Schermerhorn-Young Co., Minneapolis, Minn.	27,421
Schmidt, Louis & Louisa K., Sapulpa	480
Schock, Jas. J., Okmulgee	254
Schoenfeld, Chas. H., J. F. Milliken, Geo. C. & Karl M. Probst, Tulsa	555
Schonwald, Dave-Receiver Cozart Oil Co., Blackwell	5,490
Schurmann, H., Ft. Smith, Ark.	134
Scotland Oil Co., Robinson, Ill.	661
Scott, Eura, Los Angeles, Calif.	2,966
Scott, W. F., Kansas City, Mo.	316
Scott & Rheym, Chelsea	307
Seagrove, F. S., Baxter Sprgs, Kans.	197
Selby Oil & Gas Co., Tulsa	27,177
Sellers, H. M., Bartlesville	331
Sells, M. C., Trustee, Muskogee	641
Shaffer, C. B., Trustee, Chicago, Ill.	777
Shaffer, J. E., Tulsa	1,493
Shaffer Oil & Ref. Co., Chicago, Ill.	276,760
Shaffer-Mankin Oil Co., Tulsa	4,661
Shear & Marcus Oil Co., Shear & Co., and M. Shear, Bradford, Pa.	1,106
Sheeders, Frank S., Pawhuska	238
Sheeders Oil & Gas Co., The, Pawhuska	2,857
Sheedy, Frank, Independence, Kans.	2,022
Sheets Bros., Copan	1,974
Sheldon, Don, Muskogee	16
Sheridan Oil Co., Tulsa	38,616
Sheridan Oil Co., Trustee, Tulsa	119
Shertzer Bros., Dewey	4,216
Shoreline Oil & Gas Co., Tulsa	55,662
Short Grass Oil Co., Norton, Kans.	2,242
Shuflin, M. B., Coffeyville, Kans.	1,184
Shuler & Fischer, Tulsa	1,788
Shulthis, A. W., Estate, Independence, Kansas	1,617
Siaco Oil Co., et al, New York, N. Y.	396
Sidwell, Drlg. Co., Sapulpa	1,540
Siebler, Brn, Cincinnati, Ohio	288
Sigana Oil Co., Cleveland	188
Siggins Shope & Co., Coffeyville, Kans.	501
Silurian Oil Co., The, St. Louis, Mo.	90,940
Simack Oil & Gas Co., Wichita Falls, Texas	173
Simms Oil Co., Dallas, Texas	150
Simons, I. D., Tulsa	7,857
Simpson-Fell Oil Co., Ardmore	32,209
Sinclair Oil & Gas Co., Tulsa	1,468,563
Skeeter Oil & Gas Co., The, Garber	1,387
Skelly Oil Co., Tulsa	1,905,614
Skelton, L. S., Estate, Okmulgee	6,616
Skelton-Moore Oil Co., The, Bartlesville	8,233
Slick, T. B., Clarion, Pa.	267,763
Slick Oil Co., Tulsa	2,447
Sloan, E. H., Tulsa	365
Sloan, J. W. Realty Co., Tulsa	2,622
Smith, C. R., Ardmore	8,817
Smith, C. T., Trustee, Okmulgee	3,146
Smith, D. M., Okmulgee	1,765
Smith, E. T. & Co., Bartlesville	488
Smith, G. J., Tulsa	74,189
Smith, J. T. & Eugene B., Sapulpa	146
Smith, Margaret L. & Chas. Robt. Jr., Ardmore	17,635
Smith, Mrs. Mary S. and Marie S., Ardmore	22,908
Smith, Samuel H. Oil Co., Tulsa	479
Smith, T. K., Tulsa	5,044
Smith, Wesley M., Miami	31
Smith, Will H., Ardmore	8,003
Smith, Will H., Trustee, Ardmore	419
Smith, Brewer & Gillette, Tulsa	4,674
Smith & Steinberger, Tulsa	2,800
Snowden-Danner et al, Tulsa	3,693
Snowden & McSweeney Co., New York	7,652
Southern Oil & Gas Co., Coffeyville, Kansas	2,341
Southwestern Oil Fields Co., Okmulgee	30,474
Southwestern Oil, Gas & Coal Co., Independence, Kansas	2,882
Southwestern Pet. Co., Tulsa	241,718
Southwestern Pet. Co., J. A. and Paul Lovell and W. T. Hastings, Tulsa	1,254
Southwestern Pet. Co., P. H. Lord. Estate, Chas. S. and Henry C. Lord, Tulsa	3,528
Spangler, C. W., Tulsa	734
Speary Bros. & Mills, Marietta, Ohio	3,216
Sperata Oil Co., Bartlesville	697
Spinney, Geo. R., Tulsa	2,962
Sprague Oil Co., Ardmore	16,186
Spring Oil Co., Independence, Kans.	3,276
Stager, J. A., Nowata	951
Stager & Cornelius, Nowata	574
Stake Oil Co., Independence, Kans.	882
Staley & Wynne, Wichita Falls, Texas	345
Stalker, C. E., Tulsa	62
Standish Oil Co., Bartlesville	4,655
Stauffer, Ralph D., Tulsa	753
Stearns Drilling Co., Okmulgee	1,734
Stein, P. H. & M. S. Mussellem, Muskogee	848
Steinberger, C. A., Tulsa	2,351
Stephens, C. S., Coffeyville, Kans.	197
Stephens, W. J., Shawnee	391
Sterling G. & Oil Co., Columbus, Ohio	664
Steyner Oil Co., Bartlesville	22,482
St. Louis-Alluwe Oil & Mining Co., St. Louis, Mo.	172
Stout, W. E., Parkersburg, W. Va.	595
Stralem, C. I., Tulsa	667
Striker, John H., Tulsa	351
Strimple, J. A., Janesville, Wis.	246
Strozier, Marshall, Ft. Smith, Ark.	990
Studebaker, E. H., South Bend, Ind.	550
Strum, H. L., Ardmore	440
Sullivan, E. J. & W. C. Dickey, Bartlesville	1,120
Sullivan, M. J., Kansas City, Mo.	71
Summit Oil Co. and Sand Fork Gas & Pet. Co., Bartlesville	666
Sunbeam Pet. Co., Tulsa	1,574
Superior Oil Corp., Lexington, Ky.	108,253
Suppes, G. B., R. E. and C. E., Tulsa	15,661
Suppes & Brelin, Tulsa	1,540
Surpass Pet. Co., Butler, Pa.	1,380
Sutherland Pet. Co., Ardmore	20,474
Swaim, Guy, Bartlesville	309
Swanson, John, Fred Swanson Estate, and Dan Kelly, Marietta, Ohio	1,888
Swanson, Fred Estate, John Swanson, E. H. Brady and Dan Kelly, Marietta, Ohio.	1,869
Swastika Oil Corp., Tulsa	168
Sweeney, J. F., Tulsa	264
Sweeney, J. F. & Co., Tulsa	11.622
Sykes, C. E., Ardmore	2,272
Tabler, H. A. & Williams, Tulsa	1,535
Taft Oil Co., Independence, Kansas	2,909
Tait, S. W., Mantpelier, Ind.	521
Terrell Co., The, Terrell, Texas	998
Terwilliger, C. H., Tulsa	4,213
Test Oil Co., Bradford, Pa.	5,130
Testalog Oil Co., Tulsa	703
Texas Co., The (Prod. Dept.,) Tulsa	654,809
Texas-Oklahoma Investment Co., Independence, Kansas	1,836
Texas Pacific Coal & Oil Co., Thurber, Texas	91,525
Texmex Oil Co., Tulsa	3,668
Texokan Producing Co., The, Coffeyville, Kans.	716
32nd Oil & Gas Co., Ardmore	4,918
Thompson, J. H., Okmulgee	1,608
Thompson, J. N., Tulsa	2,119
Thompson, J. N., W. N. and R. B., Tulsa	350
Thompson, Milton, Cushing	355
Thompson, M. W. (Thompson & Black, Inc.), Tulsa	17.176
Thompson, Roy B., Tulsa	38
Thompson, R. D., Okmulgee	2,799
Thompson, Wm., Trustee No. 2, Tulsa	30
Thompson, Wm. & Roy B., Tulsa	173
Thompson Oil & Gas Co., Tulsa	7,514
Thompson, Jordon et al, Okmulgee	7,466
Thompson & Welder, Cleveland	1,433
Thompson, Welder & Neal, Cleveland	3,938
Thurmond, T. A., Ardmore	9,735
Thurvan Oil Co., Bartlesville	722
Tidal Oil Co., Tulsa	393,898
Tidal Osage Oil Co., Tulsa	274,478
Tiger Pet. Corp., Tulsa	3,146
Tiger Mountain Oil Co., Tulsa	6,961
Tighe, J. P., Arkansas City, Kans.	856
Tighe-Osage Oil Corp., Arkansas City, Kansas	866
Title Guarantee & Trust Co., Trustee Hector, Crandall, et al, Tulsa	87
Title Guarantee & Trust Co., Trustee M. R. & J. K. Putnam, Tulsa	252
Titus, C. W., et al, Tulsa	82,183
Todd, E. G., Cleveland	309
Togo Oil Co., Tulsa	497
T. O. Petroleum Co., Muskogee	1,048
Trainer, J. E. et al, Salem, W. Va.	487
Trainer Oil & Gas Co., Bartlesville	407
Transcontinental Oil Co., Pittsburgh, Pa.	128,700
Traywick, N. E., Okmulgee	138
Treft, John C., Buffalo, N. Y.	531
Troy Oil & Gas Co., Sapulpa	6,112
Trumbo, A. C., Muskogee	14
Tull Oil & Gas Co., Yale	173
Tuloma Oil Co., Tulsa	613
Turner, T. E. & T. C., Mounds	9,001
Twin Hills Oil & Gas Co., Tulsa	1,531
Twin State Oil Co., The, Tulsa	495,079
Tyrell, H. C., Tulsa	331
Upp, O. E., et al, Tulsa	247
Upp, O. E. & Vick Oil Co., Tulsa	297
Upp-Walker, et al, Tulsa	1,261
Urschel, C. F., Okla. City	8,711
Urschel, F. S., Okla. City	8.711
U. S. Oil & Gas Co., Tulsa	16,458
Utah Oil Corp., Okmulgee	4,781
Vance, S. E., Tulsa	1,088
Van Dall, Geo. I., Bartlesville	205
Van Dall Bros., Bartlesville	1,285
Van Horn, R. V., Trustee, Clifton Forge, Va.	722
Van Moss Oil Co., Bartlesville	1,105
Vensel, F. E., Tulsa	227
Vesta Oil & Gas Co., Kansas City	158
Vicmar Oil Co., Tulsa	4,389
Victoria Oil Co., Tulsa	1,166
Vowell-Jackson, Sapulpa	5,114
Wachob, Trumbo & McKay, Muskogee	114
Wagoner Oil & Gas Co., Baxter Sprgs., Kansas	719
Wah-Shah-She Oil Co., Bartlesville	8,423
Waite, C. L., Los Angeles, Cal.	1,961
Waite, Fannie C., Los Angeles, Calif.	1,959
Walda Oil & Gas Co., Carlisle, Pa.	12,311
Walker, P. G., Jr. and O. K. Eysenbach, Tulsa	435
Walker, W. L., Tulsa	66
Walker Oil Co., Tulsa	3,790
Wall Oil Co., Tulsa	905
Wallace, J. E., Okmulgee	449
Walsh Oil Co., The, Tulsa	7,214
Ward, D. M., Peabody, Kans.	371
Ward Oil & Gas Co., Tulsa	3,006
Warner-Caldwell Oil Co., Titusville, Pa	22,267
Warren Company, Bartlesville	2,077
Watchorn, Robert, Okla. City	4,888
Watchorn Oil & Gas Co., Okla. City.	115,384
Wayne Oil Co., Tulsa	3,270
Weart, J. Foss, Bartlesville	655
Weber, Howard No. 5, Bartlesville	1,817
Weber, Obins & Beattie, Bartlesville	666
Webster, G. W., Tulsa	3,437
Wedell Drilling Co., Okmulgee	492
Welch Gas & Oil Co., Stillwater	865
Welder, L. D., Estate, Geo. W. Reynolds, Admr., Cleveland	86
Welder, Myrtle, Estate, Geo. W. Reynolds, Admr., Cleveltnd	86
Wells, N. D., Tulsa	947
Wellsville Oil Co., Wellsville, N. Y.	2,169
Welsh, J. D., Kansas City, Mo.	616
Wertzberger, D. D., Tulsa	421
Wesley, R. D., Norton, Kans.	35
West, J. H., Tulsa	3,260
Westerly Oil Co., Bartlesville	3,560
Western American Oil Co., Bartlesville	2,338
Western Natural Gas Co., Tulsa	2,157
Western Oil Corp., Tulsa	11,983
Westheimer & Daube, Ardmore	159,329
Westland Oil Corp., Tulsa	5,690
Wettack, Maud T., Nowata	266
Wheeler, L. C., Okmulgee	1,427
White Eagle Oil & Ref. Co., Wichita, Kans.	46,436

(Continued on page 78)

Simple Method of Keeping Field Records

Proper accounting system not much trouble and prevents loss in handling production

By Chester W. Craig

THE preparation of financial statements is the final goal of accounting work and with that thought in mind this method is designed to efficiently collect together and classify the financial effects of the activities of the oil producer. It will be of interest, therefore, to review briefly the various phases of the oil producing business and apply the science that governs the art of recording the facts involving the acquisition of leases, and the development and equipment thereof.

Acquisition of Leases

Based on the usual custom of obtaining the right to drill or prospect for oil by means of a lease, calling for payment of a royalty of a certain proportion of the oil produced, (usually one-eighth), the consideration paid for a lease is capitalized, that is, charged to a control account styled "Leaseholds". A subsidiary columnar leasehold register should comprise the following information by leases, a separate sheet for each lease:

(1) Voucher reference number. (2) Description. (3) Capital sum—cost. (4) Capital sum—additions account establishing discovery value. (5) Total capital sum. (6) Less depletion sustained. (7) Net book value. (8) Size—acres. (9) Size—interest. (10) Date—acquisition. (11) Date—expiration. (12) Rentals—date due. (13) Rentals—amount. (14) Rental payments. (15) Bonus payments. (16) Drilling data. (17) Completion data.

Development or Cost of Proving Up a Lease

Expenditures made in drilling a well, such as those classified below, are charged to a control account styled "Drilling Wells". A subsidiary columnar register should comprise the following information by wells, a separate sheet for each well, indexed by leases:

(1) Voucher reference. (2) Description. (3) Cost of rigging up. (4) Cost of wages of drilling crew. (5) Cost of supplies consumed. (6) Cost of fuel. (7) Cost of water. (8) Cost of installation and upkeep of drilling rig. (9) Rental of equipment. (10) Cost of superintendence. (11) Cost of other expenditures which do not provide initial permanent equipment at or in the wells to become a recoverable part of the well.

It is considered correct to capitalize the above costs, that is, charge such costs by wells to the various leases after assembling in the "Drilling Wells" account, to be recovered through depletion charges or written off as a loss in case of a failure.

Well Equipment

Expenditures made in the cost and erection thereof of equipment forming a fixed recoverable facility or unit, such as those classified below are capitalized, that is, charged to a control account styled "Well Equipment". A subsidiary columnar register should comprise the following information by leases, a separate sheet for each lease, indexed by leases:

(1) Voucher reference number. (2) Cost of derrick and standard rig. (3) Cost of casing. (4) Cost of cement. (5) Cost of tubing, valves, pump and fittings. (6) Cost of superintendence. (7) Miscellaneous expenditures.

Lease Equipment

Expenditures made in the cost of the various units of equipment, such as those classified below, serving and common to all leases are capitalized, that is, charged to a control account styled "Lease Equipment". A subsidiary columnar register should comprise the following information by fields, a separate sheet for each lease, indexed by fields:

Too little care is often taken in keeping field records with the result that considerable loss is experienced every year in handling lease production. This is especially true on small properties where the accounting system is usually a hip pocket notebook.

The accompanying outline of one method used in keeping books on producing properties gives a simple system that can be worked out by any producer. —The Editor.

(1) Voucher reference number. (2) Description. (3) Drilling equipment. (4) Drilling and cleaning out tools. (5) Tanks. (6) Transportation equipment. (7) Water facilities. (8) Power plant equipment. (9) Shop machinery and tools. (10) Buildings. (11) Oil treating plants.

In the case of equipment common to all leases such as drilling equipment or transportation equipment, a separate sheet headed "Field Common", indexed by fields, should be used in the same manner as individual leases, indexed by fields with same subcaptions.

Direct Cost of Operating Leaseholds

All such expenses to be maintained in general ledger control account styled "Operating Expenses" supported by a separate subsidiary columnar register in which a page shall be assigned to each lease, indexed by fields and a sufficient number of columns thereon for each primary account as captioned below:

(1) Operating wells. (2) Cleaning and restoring wells. (3) Repairs to wells. (4) Operating lease facilities. (5) Repairs to lease facilities. (6) Field superintendence. (7) Field warehouse expense. (8) Operating field transportation equipment. (9) Repairs to field transportation equipment.

In the case of direct field expenses such as the last four next above captioned primary accounts, a separate sheet headed "Field Common" indexed by fields should be used in the same manner as individual leases indexed by fields, with same subcaptions. The total amount charged to Field Common expense during each month shall be allocated at the close of the month to the various leases served, in the ratio respectively that the total months direct labor charges to leases through direct operating and investment accounts bear to the total direct cost of field common expense.

Oil of producing companies, as a general rule, is sold as soon as there is a sufficient quantity accumulated in the stock tanks, at which time a run is made to the pipe line company and the quantity of oil withdrawn from the tanks is ascertained by measurements made by the producers and purchasers men, each of whom checks the others' figures. The purchaser generally furnishes the producer with a run ticket containing the following information:

(1) Tank number. (2) Measurement of tank before run. (3) Measurement of tank after run. (4) Temperature. (5) Gravity. (6) Total feet and inches of oil run.

Therefore a daily gauge report on each tank showing the tank gauge readings by individual lease tanks subdivided as follows:

(1) Stock beginning of day. (2) Oil reclaimed. (3) Gross production for day. (4) Pipe line runs. (5) B. S. water and other disposals. (6) Production used for fuel (7) Stock at close of day.

These daily tank gauge reports are recapped daily in the permanent Production Record, which is designed in such a way that each sheet carries all the information for each lease for the entire month, ruled for 31 days with the following columnar captions:

(1) Day. (2) Production (barrels). (3) Pipe line runs—(a) Ticket number; (b) Barrels; (c) Price of sales per barrel. (4) Name of purchaser. (5) Date of payment. (6) Fuel used—(a) Ticket number; (b) Barrels; (c) Price.

with summary at bottom of each page showing total barrels divided between royalty interest, other interest and producer's interest opposite the following subheads:

(1) Stock beginning of month. (2) Production for month. (3) Less pipe line runs. (4) Less fuel used. (5) Stock at close of month, also detail of sales summarized at bottom of said sheet as follows:

(A) Name of purchaser—(a) Barrels

A clearing house for New Wrinkles. Follow directions on page 23

More About Early Rotary Work

P. O. Box 311,
Fullerton, Calif.
Aug. 10th, 1924.

CALIFORNIA vs. GULF COAST.
Care The Oil Weekly,
Houston, Texas.

Dear Sirs:—

I am afraid you have started something.

The first water swivel for drilling wells was made so long ago that I do not know when but I saw it in use in 1878. Chapmans patented swivel held sway until The American Well and Prospecting Company of Corsicana, came out with the goose neck cone bearing type from which the modern monsters have been developed.

I am not entering a controversy but thought it harmless to recite a few facts.

The drum and countershaft hoisting works embodying practically all the principles now used was first made and used by Geo. A. Boughton and W. B. Sharp, the latter being later president of the Producers Oil Company of Houston. It was made at the Mosher Manufacturing Company of Dallas, and had a quick hoist actuated by a friction belt to hoist the block.

There are those who think the first oil well to be drilled in with the rotary process was the Lucas well on Spindletop. That is an error. The first well was completed by J. C. Dorrington at Corsicana and there were dozens of rotary wells completed before Spindletop was discovered.

The glory of the rotary development may be credited to all fields that have been able to use it.

Thirty-five years of my life have been in direct contact with the well business and I think it a fair statement of the situation to say that the first rotary to turn a drill pipe was made by Baker Brothers of Dakota. It was developed by the American Well Works of Aurora, Ill. It was improved on by the American Well and Prospecting Company of Corsicana and later by several others.

It came to California and was practically a failure because it was too light and inadequate to meet the severe conditions existing here. It was recognized as the correct process and was improved on by various concerns. The Union Tool Company did more than any one to bring it up to the requirements.

Having originated in the east and south it came to California to be developed and made strong enough so that it would succeed in almost any country and this development swept back east as all who have traveled know.

A year of daily contact with the oil fields here makes me say that there is credit enough for all as to the development of the rotary and further to say that the work done in this field (California) is more severe than any I have seen or heard of in Texas or Louisiana.

It would be a great thing if all drillers and superintendents could spend their vacations (?) visiting various rotary fields.

Yours truly,
(Signed) H. H. JONES.

(producer's interest only); (b) Price per barrel; (c) Total.

This production record is then journalized each month and production tax vouchers can be quickly prepared therefrom as well as statements showing consolidated and detailed summary of crude oil production, runs and inventories as well as disposition of producer's proportion of each barrel of oil produced.

Voucher System

The voucher system of recording disbursements and journal transactions is recommended and the voucher register should have columns provided for the following control accounts as stated above:

(1) Leaseholds. (2) Drilling wells. (3) Well equipment. (4) Lease equipment. (5) Operating expenses.
and any others that may be found desirable, so arranged as to contain sufficient reference to the detailed vouchers, which are filed in such manner as to be readily accessible for examination. Only the control totals are posted in the various columns in the voucher register, after which the primary items of distribution appearing on the voucher under each control account are posted direct from the individual vouchers to the subsidiary distribution register, described above. All cash book entries and other journal vouchers are distributed through the voucher register and to the subsidiary sheets in the same manner, the voucher register serving as a medium for all entries to reach the General Ledger and likewise to carry the individual control amounts to be spread in detail in various subsidiary registers.

General Expenses

Administrative expenses of an indirect nature not allocated to leases should be maintained in General Ledger control account styled "General Expenses" and supported by a detailed subsidiary columnar distribution register and a sufficient number of columns therein on each page for each primary account as captioned below:

(1) Salaries—officers. (2) Salaries—clerks. (3) Salaries—scouts. (4) Salaries—company attorneys. (5) Outside attorneys' fees. (6) Office supplies and expenses. (7) Stationery and printing. (8) Telegraph and telephone. (9) Dues and subscriptions. (10) Legal expenses. (11) General insurance. (12) Rental on leaseholds. (13) Office rent. (14) Interest on payables.

Items such as Depreciation and Depletion carried to a reserve account should be analyzed by fields and leases and maintained in the General Ledger as control accounts in support of detailed analysis each month by leases and fields. Taxes, losses on property abandoned or sold, and other deductions from income likewise handled in General Ledger control accounts. Care should be taken to see that wording of text for each entry in its arrangement is uniform from month to month, also that the exact titles for the General Ledger control accounts, as reflected by the balance sheet are used. (The primary accounts can be numbered). Miscellaneous journalized transactions require a text giving a clear description of the transaction involved, and should also be uniform in arrangement.

Arrangement of the General Ledger

So indexed with tabs so that a balance sheet will be drawn off with the proper control accounts falling under the following headings:

(1) Income. (2) Expense. (3) Current assets. (4) Deferred charges. (5) Plant and property. (6) Other assets. (7) Current liabilities. (8) Deferred credits. (9) Other liabilities. (10) Nominal liabilities.
and from this trial balance each month, the following financial statements should be issued in analysis thereof:

(1) Consolidated income statement showing crude oil and gas revenue and direct operating expenses by fields.

(2) Results of operations on basis of each barrel of crude, showing comparative production by months and various interests in addition to disposition of producer's proportion of said production, between oil sales, inventory increases or decreases and production used for fuel.

(3) Consolidated balance sheet.

(4) Analysis of accounts receivable.

(5) Analysis of plant and property by fields and primary accounts and by months showing deduction by fields of depreciation sustained.

(6) Analysis of leaseholds, separated between operated and unoperated, showing deduction for depletion sustained by individual leases.

(7) Analysis of productive acreage for each month by leases showing producer's interest in barrels and money, also total production and disposition of producer's interest between oil sales, inventory increase or decrease, and production used for fuel.

(8) Consolidated summary of crude oil production, runs and inventories showing the various interests in barrels and money supported by various exhibits by leases and fields as taken from the production record said exhibits captioned as follows: (a) Inventory of crude oil stocks at beginning of month; (b) Crude oil production during month; (c) Crude oil sales during the month; (d) Fuel oil produced and used during the month; (e) Inventory of crude oil stock at end of the month.

Rainbow Bend Reaches Major Field Stage

New Kansas area revives faith in unprospected section of Sunflower State

By W. Lee Sloan

Wichita, Kansas, Aug. 19.—The Rainbow Bend field of Cowley County, Kansas, has about reached the allotted place of a major factor in oil producing areas of that state.

Although the area had been condemned several times in former years, the Waite Phillips Company of Tulsa obligated itself to drill a well in the center of the block. The first well was spudded on the Johnson farm in the southeast quarter of section 20-33-3 east.

After drilling to the contract depth of 3000 feet without a showing of oil, the Waite Phillips Company added 500 feet to the contract and operations were resumed. On November 26, 1923, the well came in for a 300 barrel producer. It was 15 miles from the nearest production. The log of the well shows that it was first drilled to a depth of 3198 feet where an oil showing was evident. Tankage was erected to take care of the expected production and the well was drilled to a total depth of 3204 feet where it started to flow on its own pressure.

The completion of this well was the first real new development in the state for some time and it gave an added stimulus to future prospecting, not only in this part of Cowley County but in all nearby districts.

Johnson No. 1 continues to produce almost 300 barrels to the present time. The production from the well was delivered to the Kanotex Refining Comuany at Arkansas City for five months, until the Marland Oil Company, through its Kansas producing subsidiary, the Alcorn Oil Company, purchased a fourth interest in the Rainbow Bend and agreed to lay a combination 6-8-inch pipe line from the field to its refinery at Ponca City, Oklahoma. This purchase was made from the Independent Oil and Gas Company, which previously had bought a half interest from the Waite Phillips Company.

Second Well

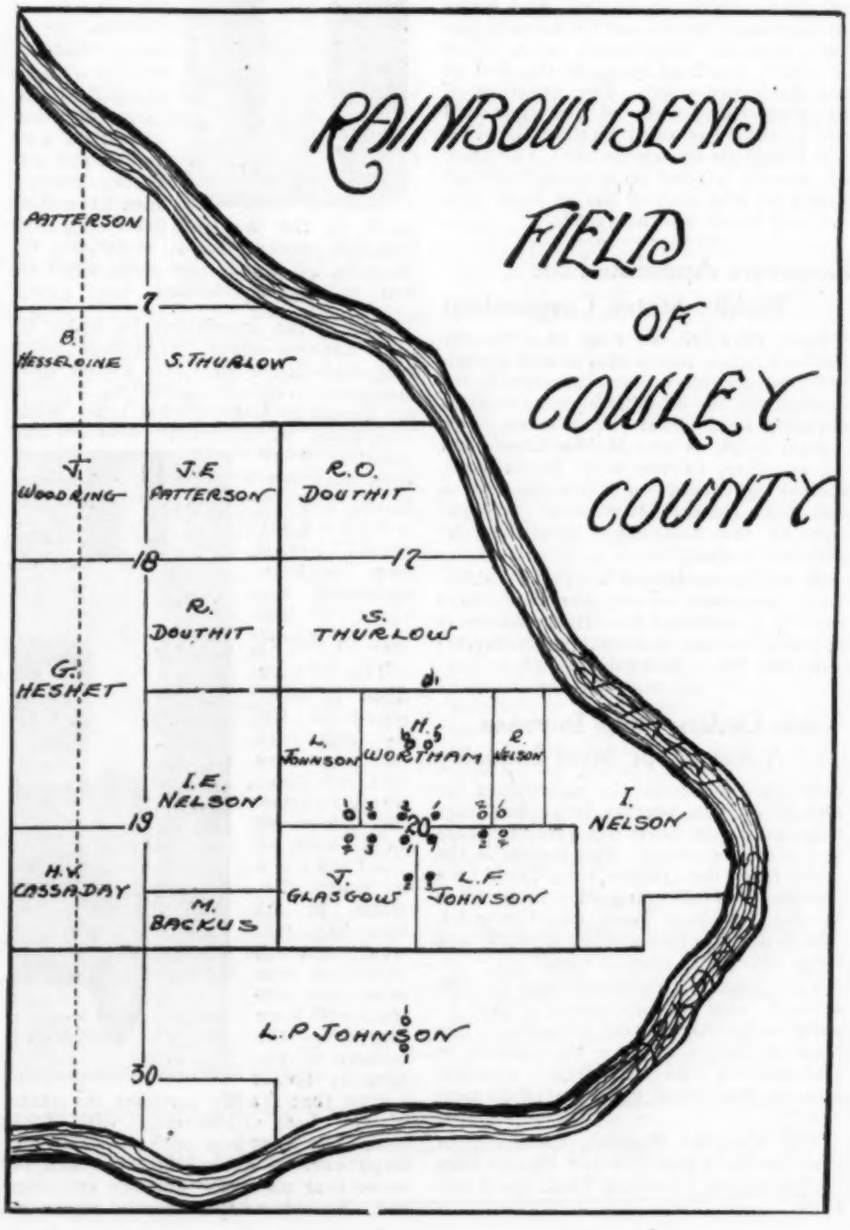
Early in April, the second well of the field came in on the Glasgow farm, a western offset to the Johnson No. 1, and this well was the factor in bringing to light the predictions of geology that Cowley County would have big production. Glasgow No. 1, located in the northeast corner of the southwest of section 20-33-3, found the pay sand at 3188 feet and began flowing at the rate of 40 barrels per hour or 960 barrels daily.

The third well was completed on the Wortham farm, a tract of land lying north of the two first wells. Wortham No. 1, in the southwest corner of the northeast of section 20-33-3, a north offset to Johnson No. 1, came in on May 25, 1924, for an initial flow of 82 barrels per hour, the most interesting completion for Kansas during the current year. The oil was of 41 gravity coming from the sand at 3177 feet.

On June 22 Johnson No. 2, the farthest east well of the field came in for an initial flow of 800 barrels per day from a sand found at 3194 feet and drilled in to a total depth of 3218 feet. The exact location of Johnson No. 2 is the northeast corner of the northwest of the northeast of section 20-33-3. As the Marland pipe line was nearing completion, the oil from the four wells producing was turned into the tank farm which had been erected at the nearby pump station, a mile and a half west of the field. The line was tested on July 20 and the 600 pounds of pressure put into the line broke two sections of the 8-inch near the Kansas-Oklahoma state line, however, the oil started flowing into the pipe about 24 hours later. The capacity of this line is approximately 15,000 barrels per day and it is now handling around 6000 barrels daily, the daily production of the Rainbow Bend field.

More Completions

Within the week of July 20, 1924, three more wells were completed in the field. Glasgow No. 3, a southern offset to Wortham No. 3, found the sand at 3199 feet and after drilling to a total depth of 3235 feet, came in for a flow of 25 barrels per hour; No. 2 Wortham, in the southwest of the southeast of the northwest of section 20-33-3 dis-



covered the pay at 3188 feet and after drilling 28 feet in, it made 30 barrels per hour; No. 3 Wortham, in the southwest corner of the northwest quarter of the same section, township and range, made 40 barrels per hour in the sand from 3215 feet to 3243 feet.

Although general opinion had condemned the southern area of the section, the Johnson No. 3, the farthest south well in the field, surprised the owners by being the largest well of the bunch when it made 100 barrels per hour on a six hour test. Johnson No. 3 is located in the southwest corner of the northwest of the southeast of section 20, south of the discovery well of the field.

The ninth producer for the field was the Glasgow No. 2, a western offset to the Johnson No. 3, which came in on August 6, 1924, for an initial flow of 100 barrels per hour from the sand at 3196 to 3231 feet. The well is located in the southeast of the southwest of section 20-33-3 and extended the field in a southeasterly direction.

A suit for possession which is expected to rival the famous Red River suit between Texas and Oklahoma, has been filed by landowners in an effort to retain the land lying in the bed of the Arkansas river. The question of the final disposition of the case will rest in the decision of whether the river is a navigable stream or not. The state of Kansas claims it is—the Supreme Court of the United States says it is not and never was navigable.

Receivers Appointed for Middle States Corporation

New York, N. Y., Aug. 18.—Former Federal Judge Julius Mayer and Joseph P. Tumulty have been appointed receivers for the Middle States Oil Corporation by Federal Judge Knox. The capital stock of the Middle States Oil Corporation, of which C. N. Haskell, former governor of Oklahoma, was the head, totals $30,000,000. Dissipation of the company's assets by its officials is charged.

A statement issued by P. D. Saklatvala, president of the company, says that "it is believed the Middle States is entirely solvent and that the receivership will be of short duration."

Tank Orders Help Increase Volume for Steel Industry

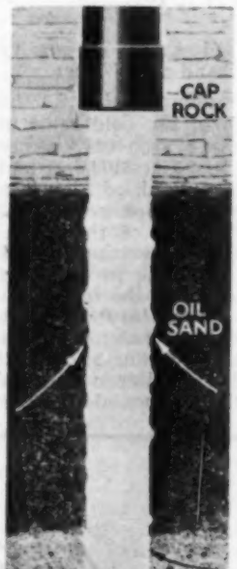
new equipment in the petroleum industry include several large bookings that will help keep the steel mills in this territory going. The largest is the order from the Quaker City Tank Line Company for 200 tank cars to be filled by the Standard Tank Car Company. The order involves around $400,000 and more than 2000 tons of steel.

The Quaker City order calls for 125 cars of 8000 gallons capacity and 75 cars of 10,000 gallons capacity. The Quaker City Company has offices in Philadelphia and St. Louis. Production on this order will commence next month.

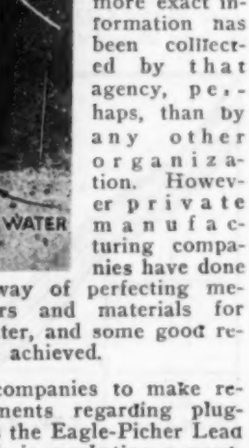
The National Refining Company of Cleveland has also ordered sixteen tank cars from the Standard Tank Car Company.

Using Lead Wool for Shutting Off Water—How to Do Successful Job

SHUTTING off water successfully and properly constitutes one of the biggest problems of oil field engineering. Already much of the best talent in this country has been applied to the problem, and science has been widely used in attempted solutions. The lead in the work has been taken by the United States Bureau of Mines and more exact information has been collected by that agency, perhaps, than by any other organization. However private manufacturing companies have done much in the way of perfecting mechanical packers and materials for plugging off water, and some good results have been achieved.

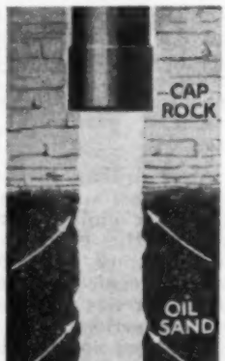


Among the companies to make recent announcements regarding plugging material, is the Eagle-Picher Lead Company, which is marketing a product known as Eagle-Picher Lead Wool. Operators in different parts of the country have used this material, and its success is widespread and has been endorsed by the U. S. Bureau of Mines.



The lead wool is composed of 100 per cent lead and is said to resist completely chemical action of salts held in solution by water. Because of its hair-like texture, each strand is separate and distinct. When placed in the bottom of the well it forms a plug that readily assumes the shape of the hole. Pounding with tools tamps the wool into both the small and large cavities about the hole and insures that all water courses are stopped. Strands of the material are twisted into rope three-quarters of an inch in diameter so that it can be coiled and packed for shipment. In this shape it can be uncoiled and untwisted and any desired amount can be used.

Being carefully packed, the container can be lowered to the bottom of the hole by tying it to the lower end of the tools. Upon reaching bottom, a quick jerk is given the line and the connection is broken, leaving the container on bottom. Skill is required in the setting of the container as it must be properly placed so that too much of the hole is not plugged. This operation being carefully performed is further insurance toward a successful plugging job.



After being placed on bottom, the tools are allowed to run on the container which crushes it down and froces the strands of lead wool into the cavities about the hole. This work securely presses the lead wool into place, and is the most important operation connected with the plugging work.

The tamping of the lead wool fills the bottom portion of the hole precisely. Every irregularity, crack or other indentation in the side of the hole is completely filled.

Water will pass through the tiniest cracks or pores of a formation. This is especially so should there be a vent or outlet in a well. To properly shut-off such a flow, the plug must precisely fit the sides of the wall. In the event the plug is imperfect, the water courses are opened and the flow will continue. On page 37, of the U. S. Bureau of Mines Bulletin 232, recently published, this statement occurs: "A flow in excess of 5000 barrels of water per day with a gauge pressure of over 150 pounds per square inch at the casing head, was recently shut off in a well in Cat Creek, Montana, by the use of lead wool."

Because of its imperviousness to chemical salts, lead wool makes a plug that has long life. A majority of oil wells have a life extending over a period of years, the most notable examples being in Pennsylvania. Any plugging work that is attempted should be for permanency so that oil can be produced many years and thus secure the maximum earnings.

FIELD NOTES AND PRODUCTION STATISTICS

Optimistic Feeling is Growing in California

Belief is widespread that there will be no crude cut— California companies are in good financial condition

By W. E. Green

Los Angeles, Calif., Aug. 16.—A feeling of optimism is spreading in California but it is hard to place a finger on the exact cause. The belief is becoming widespread that there will be no cut in crude prices. It is expected that the gasoline storage situation will show an improvement—rather is already showing a certain stiffening. A healthy cut in Mid-Continent would change the situation, naturally.

One of the reasons for the better feeling is the financial condition of the larger companies operating in California. Most of them have conducted rather conservative drilling campaigns since the first of the year. Their stocks of crude had grown to large proportions during the close of last year. With a slowing up of drilling activity, the past few months have seen these companies shipping their crude to other markets, placing the money in the banks. Last year these companies were forced to finance large drilling campaigns and at the same time spend millions building storage.

Empty Storage

At this time in California there is plenty of room for 25,000,000 to 35,000,000 barrels of petroleum and its produces, notwithstanding very heavy stocks. The building of storage was financed last year. The money is coming back now. The big flush fields have settled down to a steady production of high gravity oil. Rosecrans and Dominguez are expected to furnish sufficient new production to hold the Los Angeles Basin production close to an even keel. One authority believes that by next summer, Rosecrans area will be producing around 50,000 barrels a day of high gravity and at about the same time Dominguez should be producing about 70,000 barrels a day. Both fields are producing oil above 30 gravity.

Torrance at this time has 408 producing wells with about 90 wells drilling, 60 of which are drilling below 3000 feet. The completions the past week—10 of them—had a new production of better than 250 barrels as an average. The field has a daily average production of about 60,000 barrels at this time and the field should show no real decline for the next 90 days, since 60 wells are to be completed during that period.

Troubles at Rosecrans

The Rosecrans area is slow in getting into the produtcion column, but this is to be expected in any new field. During the past week the Superior Oil Company's Maxwell 1 was finally placed on production at a total depth of 4397 feet, making 1150 barrels of 42 gravity oil, clean, through a half-inch bean. This is the highest gravity oil ever produced in California in commercial quantities. A string of 4¼-inch tubing was run into this hole, with 150 feet of perforated at the bottom. It has a casing, or rather tubing, pressure of 340 pounds.

The Associated Oil Company and the Barnsdall Oil Company of California have wells offsetting this producer. It was found that the Associated and Barnsdall had cemented their water string a little too high up. The Barnsdall first tested clean, but when the hole was drilled 80 feet deeper water came into the hole from a water sand found below the cementing point. On the first test the oil was about 33 gravity, but was thought to have a higher gravity lower down. Both tests are to cement another casing string below this water sand, and another attempt made to complete the wells.

Other Wells Find Pay

To the north of these wells in the Rosecrans area Barnsdall's O'Day found the oil sand, as did Union's Athens 2. Both wells found the pay just below 4000 feet. To the west of these wells, across Harbor Boulevard and near the Union's Athens 1, which is now producing 37 gravity oil, are several wells drilling around 4000 feet, but in this western area it is expected that the oil sand will be found between 4500 and 4900 feet.

The Dominguez field is located to the east and south of the Rosecrans area. This field is now producing about 22,000 barrels a day, with about 10 wells in the sand. To the east of the area now producing the United and Marland wells have found the sand, meaning an extension of close to a mile east and slightly south. The Marland well set casing and may have a producer next week.

During the past week the Shell's Childs 1 was a well making about 2000 barrels of 30.4 gravity oil at 4223 feet, being the east edge well of the field. The well had been drilled a little deeper than the depth mentioned, but tested wet and had to be plugged back. In the southeast area of the field the Associated Oil Company is starting a second well to take the place of the hole lost in a blowout. The Associated feels sure of getting a well, and since the company's 50 acres is almost surrounded by acreage held by the Shell, it means that the Associated will force the drilling of several offsets. Marland and United will also drill other wells on their acreage.

Plugging Back

Santa Fe Springs daily average the past week was off about 1750 barrels. In this field many wells are being plugged back to the Bell sand, as the Meyer gradually peters out. For instance, six months ago only 10 per

(Continued on page 49.)

CALIFORNIA FIELD OPERATIONS

The following table from statistics compiled by State Oil and Gas Supervisor R. D. Bush for California for the past several weeks gives a true insight into field activities:

Month of—	New Wells started	Water Shut-off tests	Deepening jobs	No. Wells aband.
June, 1923	120	195	59	22
July	94	145	46	23
*August	96	141	41	26
September	122	194	39	36
October	114	131	38	25
November	100	151	48	23
*December	105	181	37	32
January, 1924	120	111	48	23
February	125	97	49	47
*March	142	183	81	99
April	130	154	76	34
*May	156	171	79	34
Week ending—				
June 7	34	37	16	5
June 14	34	42	10	7
June 21	23	33	22	3
June 28	27	37	18	3
July 5	22	27	10	5
July 12	24	36	12	14
July 19	44	31	20	5
July 26	22	35	27	4
August 2	24	46	17	9
August 9	22	31	11	5

*Denotes months with five weeks.

If you save your own time, why not save some for your friends. Page 23

Average Daily Production for all U. S. Fields

Kansas

	Past Week	Prev. Week
Eldorado	17 000	17,120
Greenwood	21,100	21,000
Elbing and Peabody	8,470	8,475
Fox-Bush	5,260	5,300
Augusta and Douglas	3,385	3,405
Blankenship	2,990	2,975
Florence and Covert	2,555	2,560
Rainbow Bend	8,280	8,290
Other Fields	16,990	16 995
Totals	86,030	86,135

Oklahoma

Tonkawa	62,755	44,560
Burbank	77,030	77,800
Bristow	55,120	54,430
Osage (outside Burbank)	53,790	55,250
Cushing	26,490	26,820
Okmulgee	26,140	26,000
Stroud	17 820	18,705
Hewitt	20,000	20,150
Cromwell	65,070	60,380
Healdton	13,685	14,000
Duncan and Walters	9 380	9,500
Wewoka	7,450	8,120
Gilcrease-Papoose	13,030	12,905
Other Fields	78,800	79,800
Totals	526,560	510 420

Louisiana

Haynesville	18,100	17,650
Caddo Light	10,335	10,175
Caddo Heavy	1,960	2,010
Homer	7,600	7 425
Bellevue	5,025	4,840
Vinton	5,700	6,200
Bull Bayou	4,750	4,600
Cotton Valley	9,700	6,340
Elm Grove	855	860
Evangeline	550	555
Edgerly	500	525
Anse Le Butte	20	25
Totals	65,095	61,205

Arkansas

Smackover Heavy	88,690	92,790
Smackover Light	37,335	36 950
El Dorado	12,750	12,275
Stephens	2,300	2,070
Irma	1,400	1,495
Totals	142,475	145,580

Wyoming-Colorado

	Past Week	Prev. Week
Salt Creek	85,800	87,500
Teapot	2,715	2,700
Big Muddy	3,750	3,900
Grass Creek	3,070	3,250
Elk Basin	1,210	1,155
Rock River	3,000	3,050
Lance Creek	2,100	2,110
Poison Spider	850	650
Lost Soldier	5 600	5,750
Craig, Colorado	2,200	3,575
Other fields	4,480	3,605
Totals	114,775	117,225

Montana

Cat Creek	4,045	4,125
Kevin-Sunburst	4,120	4,280
Miscellaneous	110	115
Totals	8,275	8,520

California

Los Angeles, Calif., Aug. 15—The daily average production of the California fields the past week, compared with the previous week with number of producing wells in several of the Southern fields, was about as follows:

	Last Week	No. Prod. Wells	Prev. Week
Long Beach	153,750	469	158,250
Santa Fe Springs	63,250	335	65,000
Huntington Beach	43,000	274	44,000
Torrance	60,000	408	60,250
Dominguez	21,500	16	22,250
Rosecrans	1,150	2	635
Others	276,350		274,615
Totals	619,000		625,000

Texas

NORTH CENTRAL

	Past Week	Prev. Week
Corsicana-Powell	77,480	78 935
Archer County	28,945	30,270
Mexia	28,500	27,600
Electra	21,285	22,120
Stephens County	20,285	20,650
Burkburnett	18,250	19,170
Richland	19,200	16,750
Ranger-Eastland	6,985	6 970
Desdemona-Gorman	6,540	6,535
Reagan County	5,230	6,200
Young County	4,135	4,160
K-M-A	3,510	3,565
Moran-Shackelford County	3,335	3,540
Currie	2 600	2,840
Iowa Park-Shappell	1,560	1,660
Mitchell County	1,435	1,600
Panhandle District	1,015	1,145
Strawn-Palo Pinto County	935	945
Brown County	515	500
Petrolia-Clay County	420	485
Coleman County	135	135
Thrall-Williamson County	65	70
Scurry County	55	55
Jack County	25	25
Totals	252,440	256,060

GULF COAST

Hull	20,150	20,400
West Columbia	13,000	13,000
Orange	12,200	14,500
Goose Creek	10,500	10 750
Humble	7,800	7,650
Sour Lake	4,450	4,585
Batson	1,700	1,780
Saratoga	1,450	1,490
Damon Mound	1,400	1,475
Spindle Top	900	895
Blue Ridge	650	560
Barbers Hill	180	175
Pierce Junction	125	200
High Island	125	265
Nacogdoches	110	110
Richmond	100	150
Dayton	90	140
Markham	65	65
Hockley	10	25
Big Hill	10	20
Stratton Ridge	..	..
Totals	75,015	78,235
Totals North Texas	252,440	256,060
Luling	40 000	42,000
Mirando	4,000	4,000
Somerset	2,500	2,500
Rockdale-Minerva	500	525
Totals	374,455	383,320

Condensed U. S. Production for Twelve Months

(Stated in Barrels)

This table is carried each week by The OIL WEEKLY, and shows daily production average for each state or section. Figures for Oklahoma, Kansas, Texas, Louisiana, Arkansas and Mountain States are compiled by The OIL WEEKLY, while estimates for California and Eastern States are furnished by the American Petroleum Institute.

Daily average for month	*Mid-Continent	North Central Texas	Texas Coastal	†Texas Total	Kansas	Okla.	Louisiana	Eastern States	Wyoming-Montana	Calif.	Ark.	U. S. Total
August	726,981	217,208	105,966	323,148	89,998	419,775	97,936	120,750	83,938	375,000	28,834	1,618,765
September	716,107	207,467	107,790	314,932	89,760	418,880	101,857	114,200	80,490	387,000	33,135	1,540,371
October	714,906	200,465	115,130	316,370	90,404	424,037	97,502	116,375	86,412	423,750	34,127	1,489,005
November	711,521	199,223	114,150	388,376	91,098	421,200	93,410	116,375	106,092	450,000	77,225	1,668,776
December	692,702	170,187	111,819	242,010	87,508	435,007	86,513	114,900	103,679	484,000	107,732	1,722,349
January (1923)	708,372	184,885	115,628	304,790	86,720	436,767	81,205	113,500	123,254	517,500	111,920	1,770,645
February	712,007	180,364	96,984	286,493	85,298	446,345	78,068	112,500	110,328	587,500	101,346	1,805,496
March	720,287	184,582	89,873	283,355	86,012	449,693	75,352	109,900	118,580	653,000	108,630	1,888,522
April	756,381	192,148	92,320	293,780	86,133	478,100	76,854	106,000	127,860	711,250	102,099	1,983,026
May	793,774	203,776	90,905	304,032	85,500	504,498	75,368	109,125	125,680	700,125	109,033	2,010,840
June	824,297	217,162	92,240	320,250	85,255	521,880	72,745	116,300	129,559	773,000	133,592	2,159,818
July	866,665	274,330	91,795	378,335	84,785	508,405	70,085	113,000	137,300	851,000	132,395	2,275,305
August	826,982	278,574	94,398	393,780	82,741	464,416	68,739	112,625	137,909	866,250	123,000	2,251,966
September	830,517	371,730	93,649	443,461	77,078	421,763	68,935	108,400	157,742	858,700	127,955	2,269,176
October	876,059	408,036	84,120	511,483	71,362	371,657	65,305	107,750	139,912	823,125	125,145	2,240,741
November	935,975	479,383	82,747	580,700	69,337	287,253	64,701	108,125	151,225	768,275	124,188	2,253,806
December	729,591	283,130	78,033	378,478	68,444	378,017	61,138	110,300	146,770	723,845	120,049	1,987,041
January (1924)	685,540	243,120	75,085	334,485	67,815	374,605	59,125	108,000	144,735	698,965	114,255	1,900,985
February	729,933	254,180	81,131	362,849	68,183	407,568	59,449	104,500	141,775	675,425	114,726	1,934,476
March	762,684	284,874	78,567	388,221	69,864	407,946	55,783	97,800	128,352	650,790	119,869	1,917,023
April	777,590	276,595	76,755	380,005	71,015	429,980	54,740	101,250	127,700	649,825	128,750	1,943,270
May	763,320	267,475	74,175	374,915	71,490	424,355	60,655	103,800	127,770	640,930	148,630	1,952,545
June	799,230	260,785	74,335	375,310	74,265	464,175	62,660	105,750	125,735	628,400	157,165	1,993,465
July	815,830	254,665	75,445	378,365	81,545	479,620	63,855	107,175	124,305	620,175	148,655	2,003,695
Aug 2	830,370	254,540	80,765	386,330	84,955	490,875	63,120	107,000	123,865	622,000	147,310	2,025,455
Aug. 9	852,615	256,060	78,235	383,320	86,135	510,420	61,205	107,000	122,170	625,000	145,580	2,032,310
Aug. 16	865,030	252,440	75,015	374,455	86,030	526,560	65,095	107,000	123,050	619,000	142,475	2,043,665

*Includes North-Central Texas, Kansas, Oklahoma.
†Beginning February, 1923, Somerset, Mirando, Rockdale and Luling production included.
NOTE—Mexia production included in North Central Texas.

Luling Output and Shipments Show Increase; Five New Wells for Week

Luling, Texas, Aug. 18.—Five wells were completed by the United North and South Oil Company in the Luling field last week, three of which were on the Maggie Moore lease in Guadalupe County. The completions made by the North and South are producing 3900 barrels daily. The J. K. Hughes Development Company made the only other completion of the week, the No. 31 Allen for 500 barrels.

The Nos. 3, 6 and 7 Maggie Moore wells are making a total production of 2100 barrels. The No. 6 Gideon is making 500 barrels and the No. 20-A Allen is making approximately 1300 barrels.

With the completions during the last week the total production of the field is increased nearly 4400 barrels daily. Shipments are reported to be on the increase.

Drilling operations have begun on the No. 3 P. M. Roberts. The well has been deepened and drillers say that they expect it to produce at least 500 barrels daily when completed.

The Walhunda Oil Company's Jones well is drilling in a hard formation around 1980 feet and is expected to be completed in the Edwards lime.

Around 50 rigs are now running on both sides of the San Marcos River, many of which are ready to be drilled in and others are being cemented.

Everett Suladie, drilling on the No. 18 Allen of the J. K. Hughes Development Company, is reported to have broken all records for drilling, making 804 feet in 12 hours in the first day's run. In less than seven days after spudding in the well had been drilled to 2030 feet and casings set.

Optimistic Feeling is Growing in California

(Continued from page 47.)

cent of the total production of the Associated Oil Company in this field was from the Bell. Today about one-third of the Associated production is coming from the Bell. On one Associated lease most of the wells have already been plugged back to the Bell and the production on this lease is at least three-fourths from the Bell and only one-fourth from the Meyer. The Associated is probably getting a greater percentage of its production in the Bell than any of the other companies, although all of them are gradually coming back to the Bell, passed up when the Meyer was furnishing such larger producers. For this reason Santa Fe Springs can be expected to hold up fairly well for several months to come.

At Santa Fe Springs the Shell Company's Slusher 6-A, the deep test, has reached a depth of 6099 feet and is fishing for a lost bit.

Oil and Equipment Companies Increase Oklahoma Capital

Oklahoma City, Okla., Aug. 18.—Indication that both oil companies and equipment manufacturing concerns in Oklahoma are enlarging their activities is seen in the recent reports of capital investments made to the secretary of state's office here. The largest increase in capital investment was by the Sinclair Crude Oil Purchasing Company which has increased from $40,000,000 to $46,493,621.32.

Other increases in capital in the state include Black, Sivalls & Bryson of Bartlesville from $803,640 to $959,555; Producers Supply & Tool Company from $10,000 to $35,000; Joseph Reid Gas Engine Company from $5,969 to $10,500; Keener Oil and Gas Company from $500,000 to $1,243,076; Republic Supply Company from $300,000 to $739,000, and others.

R. B. Whyte, factory superintendent of the Macwhyte Company of Kenosha, Wisconsin, is on a tour of inspection through the Mid-Continent oil country.

Charles Ross of the Indo-Burma Petroleum Company, Ltd., of Burma, India, is visiting in the United States and now is on a tour of the oil country.

Imports of Petroleum at Principal United States Ports

The following represents the total imports of crude oil for the month with the current month given by weeks:

	Atlantic Ports						Gulf Coast Ports					Total at All Ports
	Baltimore	Boston	New York	Philadephia	Others	Total	Galveston	N. Orleans Baton Rge.	Port Arthur Sabine Pass	Tampa	Total	
April	370,000	669,000	1,074,000	625,000	591,000	3,319,000	1,615,000	1,020,000	1,135,000	168,000	4,362,500	7,681,500
May	344,000	515,000	1,026,000	437,000	615,000	2,937,000	1,351,000	910,000	1,184,000	127,000	3,582,000	6,519,000
June	314,000	421,000	1,791,000	755,000	809,000	4,090,000	1,515,000	1,142,000	1,062,000	229,000	3,948,000	8,038,000
July	287,000	465,000	1,806,000	448,000	898,000	3,876,000	1,471,000	1,120,000	833,000	92,000	3,516,000	7,392,000
September	268,000	565,000	1,744,000	660,000	686,000	3,923,000	1,776,000	1,397,000	880,000	224,000	4,277,000	8,202,000
October	365,000	292,000	1,194,000	536,000	816,000	3,203,000	988,000	1,330,000	380,000	50,000	2,248,000	5,951,000
November	223,000	395,000	1,194,000	576,000	757,000	3,145,000	1,478,000	1,000,000	551,000	111,000	3,287,000	5,432,000
December	474,000	574,000	1,243,000	606,000	1,024,000	3,917,000	2,019,000	1,832,000	933,000	259,000	5,043,000	8,960,000
January	398,000	531,000	1,060,000	376,000	949,000	3,314,000	1,295,000	887,000	689,000	15,000	2,936,000	6,250,000
February	520,000	527,000	639,000	458,000	771,000	2,865,000	1,558,000	1,284,000	525,000	195,000	3,562,000	6,427,000
March	802,000	734,000	1,243,000	502,000	1,668,000	5,049,000	2,346,000	1,689,000	1,116,000	301,000	5,257,000	10,281,000
April	653,000	664,000	1,371,000	407,000	1,067,000	4,162,000	1,641,000	1,492,000	510,000	68,000	3,711,000	7,873,000
May	693,000	618,000	1,368,000	264,000	1,329,000	4,272,000	1,398,000	1,308,000	884,000	169,000	3,759,000	8,031,000
June	515,000	466,000	1,864,000	292,000	1,026,000	4,163,000	1,769,000	1,079,000	685,000	145,000	3,678,000	7,841,000
July	375,000	260,000	1,971,000	179,000	1,114,000	3,899,000	1,418,000	1,211,000	579,000	153,000	3,361,000	7,260,000
August 2	88,000	70,000	530,000	.....	341,000	1,029,000	359,000	248,000	64,000	15,000	686,000	1,715,000
August 9	.....	129,000	110,000	221,000	121,000	581,000	270,000	245,000	181,000	.....	696,000	1,277,000

NOTE—Figures by American Petroleum Institute.

Receipts of California Oil at Atlantic Coast Ports

The following shows the receipts of California oil at Atlantic Coast ports by months with the current month given by weeks:

	Atlantic Ports						Gulf Coast Ports					Total at All Ports
	Baltimore	Boston	New York	Philadephia	Others	Total	Galveston	N. Orleans Baton Rge.	Port Arthur Sabine Pass	Tampa	Total	
March	442,000	184,000	1,355,000	496,000	615,000	2,691,000	.....	.....	.....	.....	.....	2,691,000
April	105,000	256,000	2,456,000	502,000	320,000	3,639,000	.....	478,000	.....	.....	478,000	4,117,000
May	444,000	72,000	1,259,000	764,000	964,000	3,553,000	.....	300,000	53,000	.....	353,000	3,906,000
June	821,000	160,000	3,206,000	826,000	808,000	5,821,000	.....	664,000	.....	.....	664,000	6,485,000
July	443,000	75,000	2,068,000	741,000	699,000	4,080,000	.....	559,000	.....	.....	559,000	4,639,000
August	329,000	229,000	2,956,000	836,000	683,000	5,033,000	.....	970,000	70,000	.....	1,040,000	6,073,000
September	1,028,000	237,000	2,581,000	621,000	443,000	4,910,000	.....	703,000	.....	.....	703,000	5,613,000
October	779,000	224,000	2,503,000	779,000	429,000	4,714,000	.....	746,000	.....	.....	746,000	5,460,000
November	591,000	155,000	2,302,000	584,000	271,000	3,903,000	.....	935,000	.....	.....	935,000	4,838,000
December	454,000	215,000	2,901,000	813,000	753,000	5,136,000	.....	729,000	.....	.....	729,000	5,213,000
January	619,000	77,000	3,156,000	659,000	503,000	4,660,000	.....	615,000	.....	.....	615,000	5,275,000
February	326,000	145,000	2,811,000	842,000	75,000	4,199,000	.....	810,000	.....	.....	810,000	5,009,000
March	298,000	77,000	3,352,000	989,000	413,000	5,129,000	.....	.....	.....	.....	.....	5,129,000
April	170,000	77,000	2,633,000	378,000	224,000	3,482,000	.....	.....	.....	.....	.....	3,482,000
May	190,000	147,000	2,771,000	411,000	273,000	3,792,000	.....	315,000	.....	.....	315,000	4,107,000
June	522,000	147,000	2,490,000	443,000	220,000	3,822,000	.....	.....	.....	.....	.....	3,822,000
July	167,000	70,000	2,017,000	374,000	188,000	2,816,000	.....	75,000	.....	.....	75,000	2,891,000
August 2	.....	.....	603,000	.....	.....	603,000	.....	.....	.....	.....	.....	603,000
August 9	108,000	.....	842,000	58,000	.....	1,008,000	.....	30,000	.....	.....	30,000	1,038,000

Note—Figures by American Petroleum Institute.

Tonkawa Deep Sand Wells Holding Up

Performance of producers indicate necessity for upward revision of estimated possibilities

By W. Lee Sloan

Tulsa, Okla., Aug. 20.—Although the Cromwell area of Seminole County continues to hold the interest by daily completions, the Tonkawa deep sand wells have compelled the eyes of oildom to be turned in that direction. For the 24 hours ending last Monday night the 12 completions in that area produced 51,070 barrels and all of the wells were increasing their flow each hour.

Operators are still holding out that the wells will not live long as they are, but if the performance of the first three wells are to be taken as a base to work upon their productive potentialities now seem larger than expected. A production report of these first three wells covering the month of July is as follows:

T. B. Slick's Endicott 1, 78,120 barrels in July, averaging 2520 barrels per day; Comar's No. 4 Pettit, 74,529 barrels in July, averaging 2981 barrels per day; Pennock Oil Company No. 7 Endicott, 82,826 barrels in July, averaging 2672 barrels per day.

The Wentz Oil Company well, which is the largest in the field, is today producing 7093 barrels per day with the drill but one foot in the sand. It is possible that the well has drilled itself a little deeper, but the one foot is the depth shown on the log. The sand in this well was found at a depth lower than in any other well in the field.

The Pennock Oil Company No. 4-D, in the south one-half of the southeast quarter of section 34-25-1 west, has been drilled to a total depth of 4031 feet and it is now making 3000 barrels per day.

The Comar Oil Company No. 1-W Beverlin, northwest quarter of section 34-25-1 west, found the top of the sand at 4143 feet and after drilling to a total depth of 4146 feet it made 745 barrels in the first nine hours. After aggitating, the well started off with a prolific flow of 229 barrels per hour.

T. B. Slick's No. 5 E. Endicott, in the south one-half of the southwest of section 35-25-1 west, topped the sand at 4140 feet and it made 700 barrels in the first six hours. The well is now drilling deeper.

Storage in the Burbank field has increased approximately 420,000 barrels during the past 30 days, bringing the total amount in storage to 12,475,526 barrels at the present time.

A resume of the week's activity shows that operation in the Burbank field decreased a total of 14 wells. The Skelly Oil Company's No. 4, in the southeast corner of the northwest of section 26-27-5, found the Burbank sand dry from 2896 feet to 2960 feet and it is now drilling at 3535 feet, 535 feet in the Mississippi lime.

The 160-acre tract of the Marland Refining Company, on which the No. 8 Pettit was completed last week for Oklahoma's largest well in five years, is now producing 13,000 barrels per day with all of the wells pinched in. It is thought that the lease is capable of producing at least 30,000 barrels per day if the wells were allowed to flow to capacity. The 160-acre tract has produced 1,650,000 barrels to date.

The successful completion of the Central National Oil Company No. 1 Dunn in section 4-10-8 Cromwell pool and the Sinclair-Transcontinental well in section 9-10-8 now almost definitely proves the fact that all of section 9 will be productive. Although the east side has reported one dry hole in the Cromwell field, there has been considerable gas in every well drilled on that side and it is thought by some operators that the wells were not drilled deep enough. This opinion is based on the McMann and Snowden and McSweeney completions.

If this assumption is true, the Cromwell field has not been defined except on the south and southwest edges and with the successful completion of the most northern well of Central National Oil Company, there is no telling how far the production will run to the north. Lease buying has been most active in the 10-7 area, extending up into Okfuskee County in 11-7 and 8.

Across the Seminole-Hughes County line T. B. Slick's No. 1 Sand in the southwest of the southwest of the southeast of section 35-10-9, which found the Papoose sand at 3330 feet, has now cleaned itself out and is making 17 barrels of oil per hour while waiting for a pipe line connection. This well is a one-mile extensioner from the Slick 600 barreler in section 3-9-9, and a one and one-half mile extension well from the main part of the Papoose pool.

PRODUCTION OF DEEP SAND WELLS IN THE TONKAWA FIELD		
T. B. Slick	2 wells	3,480
Gypsy Oil Company	1 well	4 305
Comar (L. Endicott)	1 well	6,462
Comar (Pettit)	1 well	3,333
Comar (E. Endicott)	1 well	6,051
Comar (Beverlin)	1 well	5,496
Wentz Oil Co.	1 well	7,093
Blackwell O. & G. Co.	1 well	6,750
Pennock Oil Co.	3 wells	8,100
	12 wells	51,070

The Gilcrease pool in Northern Hughes County has been condemned on all sides with the possible exception of the southwest. A good producing sand might be found in the southeast quarter of section 18-9-9, but there is not a solid example upon which to base even this assumption.

Three miles south of the Gilcrease-Papoose area the Josey Oil Company has found a 12 million foot gasser on what is thought to be a separate and distinct structure. No. 1 Gafford, in the southwest corner of the northeast of section 22-9-9 found a million feet of gas at 3382 feet and after drilling three feet deeper it increased to its present capacity. A fishing job for the tools caused by the breaking of the line is now in progress on the well.

The Roxana Petroleum Company wildcat well in section 12-8-8, northeast of the Wewoka pool is reported to have produced 75 barrels of oil in 12 hours. The well, known as No. 1 Cullen, in the center of the northwest of the northeast of the northwest of section 12-8-8 topped the sand ten days ago at 3400 feet and when barely touched made 60,000,000 cubic feet of gas per day. While drilling at 3522 feet the well started spraying oil.

The Alcorn Oil Company No. 1 North, in the northeast of section 12-26-2 west in Kay County, after mudding off 25 million feet of gas, broke loose and is now making 15 million feet and 300 barrels of oil from 2537 to 2543 feet. The Marland Oil and Refining Company, of which the Alcorn Company is a producing subsidiary, has completed negotiations with the Otstot Development Company of Blackwell for the latter's holdings in the Otstot pool northwest of Blackwell.

An increase is recorded by the Willis Oil and Gas Company in their No. 2 Townsite in section 12-16-6 Stroud pool, Lincoln County, which was making 275 barrels, but which is now making 500 barrels after drilling to 4150 feet. The east side of the Stroud field looks much better with the completion of the Transcontinental No. 1 Coyarke in the southwest corner of the southeast of the southwest of section 6-14-7, Creek County, which is making 23 barrels per hour while drilling at 4149 feet. The west side of the field has been condemned by the salt water well of the Union Petroleum and Supply Company in section 2-14-6, Lincoln County. Flynn and Morgan have reported a second show of oil in their wildcat test in the southwest corner of the southeast of section 34-15-5 Lincoln County. The show is reported from the sand at 2650 feet and is now setting casing preparatory to drilling in.

How to get the price of that pair of field gloves you've been wanting—
See Page 23

Moffat Dome Discovery Well Still Flowing Without Increase of Water

Denver, Colo., Aug. 18.—There is considerable conjecture here as to the plans understood to be under way by the Mutual Oil Company for further consolidations with other companies, but nothing authentic has been given out by the company itself. Press dispatches credit the merger to probably be with Marland or other companies in the Mid-Continent, but later advices have carried a denial from Marland officials of such a move. A number of companies have been mentioned in connection with such a merger, which, if consummated, would place Mutual even more to the forefront as one of the largest producing, refining and distributing units in the industry.

On the completion of the Whitaker No. 1 well of the Union Oil Company of California located in the northwest quarter of section 30-8-68, Larimer County, Colorado, will depend the real possibilities of the Fort Collins dome area. This well's production is variously estimated from as low as 500 barrels to as high as 5000 barrels from a sand encountered at 4476 feet. All indications point to a good well and if such be the case the territory will be of real importance. Whether the hole actually has penetrated very far into the sand remains to be seen, some reports indicating that the real pay may not have yet been reached. The Whitaker well is some three miles north of Fort Collins and about eleven miles south of the discovery well on Wellington Dome, which blew in as a gasser last November.

Water trouble in the Texas Production-Transcontinental discovery well on Moffat dome in section 33-5-91, Moffat County, has not become more aggravated. The flow from the well is holding up to around 2000 barrels daily of pipe line oil and the temperature of the crude has not shown any perceptible increase. No effort has been made to case off the water so long as the production of the well continues at anything like its present output. North of the discovery well is the Texas Production Company's Freeman 1 in section 28-5-91, which is being drilled deeper to the Dakota sand after encountering the Frontier sand at around 3894 feet without results. The completion of this well will be watched with interest, as it may help to determine the extent and the source of the water intrusion that has appeared in the discovery well.

Marking the beginning of operations in Colorado the Producers and Refiners Corporation is preparing to start a test on the Elk Springs Dome in Moffat County some 50 miles from Craig, where it will drill on a location that is 1400 feet south of the northeast corner of section 36-5-98. This location is but scarcely 2000 feet southwest of the test being put down by the Union Oil Company of California.

Beginning Friday the Midwest Refining Company began running crude from the Hogback Dome area in New Mexico to Farmington on the Denver and Rio Grande Western Railway, where the company has erected a loading rack. This crude is being run through the Midwest's 3-inch line, which has just been completed and thoroughly tested. The line is 22 miles in length and welded all the way with the pipe laid underground. It is understood that this crude will be transported by tank cars to the Utah Oil Refining Company at Salt Lake City, Utah, and to the Mutual Oil Company at Florence, Colorado. Utah Oil Refining heretofore has been receiving much of its crude supply from Montana.

Although without official verification, it is reported here that the Texas Pacific Coal and Oil Company and the Prairie Oil and Gas Company are interesting themselves in some of the acreage held in Northwestern New Mexico by the New Mexico and Arizona Land Company, comprising in all some 1,000,000 acres. An option is understood to have been obtained on a part of this land.

The report carried in recent press dispatches of Sinclair Crude Oil Purchasing Company contracting to sell the Atlantic Refining Company upwards of 7,000,000 barrels of crude is not new, but concerns a contract made between the two companies last fall. A part of this oil is to be delivered to the East from Sinclair's stocks in the Rocky Mountain region, which are understood to total in all around 14,000,000 barrels.

Storage of other companies include the Midwest Refining Company with upwards of 10,000,000 barrels of crude held in Wyoming and elsewhere, Ohio Oil Company with approximately 850,000 barrels, Texas Company with some 700,000 barrels, Mutual with 600,000 barrels, Kasoming Oil with 400,000 barrels, Illinois with 250,000 barrels, Producers and Refiners Corporation with 145,000 barrels, and White Eagle Oil and Refining Company with upwards of 60,000 barrels. Total estimated crude held in storage by all companies is around 30,000,000 barrels to date.

Kansas Drilling Operations Increase; Seek Extension of Rainbow Bend Pool

Wichita, Kan., Aug. 20.—A drilling campaign of considerable dimensions is now getting under way in Kansas, with the territory surrounding the Rainbow Bend field of Cowley taking the lead. Waite Phillips, Marland Oil and Independent Oil and Gas companies are starting five new wells on their large block, while efforts are being made by other interests to extend the producing area of the new pool.

The Phillips - Marland - Independent interests have staked locations for No. 1 Thurman in the southwest of the southeast of section 17-33-3e, No. 5 Wortham in the center of the northwest of the southwest of the northeast of section 20-33-3, No. 6 Wortham, center of the northeast of the southeast of the northeast of 20-33-3; No. 1 Johnson in the center of the northeast of the northwest of section 29-33-3 and No. 1 Alexander in the center of the southeast of the southeast of the southeast of section 4-33-3.

At the same time the Gypsy Oil Company has made a location for No. 1 Poor, located in the center of the southwest of the southwest of the southwest of section 3-33-3; Alcorn Oil Company has located No. 1 in the center of the northwest of the northwest of the northwest of section 10-33-3. On the Wright farm located in section 10-33-3 the Alcorn Company staked locations for No. 1, No. 2 and No. 3. Roxana Petroleum Corporation has made a location on the Spreums farm in the northwest corner of the southwest of section 10-33-3 and also in the northwest of the northeast of section the southwest of 9-33-3. Roxana and Gypsy are moving in their rigs now. The above wells are located near the Alcorn No. 1 Graham.

Lying to the south, between the Rainbow Bend and Burbank field of Oklahoma, is seen considerable drilling activity also. Shawver and Elwell's No. 1, in the center of the northwest of the northeast of the northeast of section 17-34-3e; Joe Mather, No. 1 James in the center of northwest of the northwest of the northeast of section 20-34-4; National Union Oil Company No. 1 Eaff, center of the southeast of the southwest of the southwest of 10-35-1e, and Lewis Oil Company No. 1 Walker in the southeast of the northwest of the northeast of section 31-30-6. It is thought by some that the Rainbow Bend district may be an extension to the Burbank pool of Oklahoma and the above named wells will probably give a definite answer to the question.

The new De Malorie pool, six miles west of Madison, in Greenwood County received a jolting setback when Simmons & Burke missed the sand in the northwest corner of the northwest of section 18-22-11, a diagonal offset to the discovery well, which made 400 barrels flush six weeks ago at 2100 feet when it was brought in by Bradford, Hazlett, Frazier & Davis.

Kors and Wilkins' third well on the F. D. Thompson farm in section 16-33-12, seven miles southwest of Independence, topped the lime at 1040 feet, the first deep test on the farm, and encountered a strong gas pressure with a rock pressure of 600 pounds. At present they are trying to mud off the gas in order to drill deeper.

In the Russell County field of Western Kansas the following wells are conceded to be too deep for the Oswald pay sand:

Company	Location	County
Noble O. & G. Co.	3-16-16	Rush
Skelly Oil Co.	14-12-14	Russell
Patton et al.	4-13-15	Russell
P. & R. Corporation	24-12-15	Russell
Lewis Oil Company	31-12-14	Russell
Amerada Oil Corporation	20-12-15	Russell
Liggett et al.	34-10-15	Russell
Valerius O. & G. Co.	3-13-13	Russell
Merrian et al.	11-12-12	Russell

Increase For Montana Output Second Quarter

Pipe line runs for the state of Montana show an increase of 278,427.37 barrels during the second quarter of this year as compared with the first quarter. This increase is due, no doubt, to favorable conditions for development work, which began late in the spring in the Montana fields. Price reductions did not affect the Mountain districts until toward the close of July and early August, and for that reason no attempts were made to halt production early in the summer.

In the Cat Creek field, the Mutual Oil Company led all others with a total recovery of more than 160,000 barrels. The Mid-Northern Oil Company took second place with slightly more than 120,000 barrels. Production of the other companies operating in the field was relatively low.

The Ohio Oil Company showed the heaviest production in the Sunburst district, with production totaling 263,734 barrels. Second place in this field was held by the Mutual Company. Detailed figures by companies are given in the accompanying table.

Empire Starts Work on New Compressor Station

Bartlesville, Okla., Aug. 18.—Construction of a compressor station at Welda, Kansas, on the Kansas Natural Gas Company pipe line system is announced today by the Empire Companies. The new station will gather gas from approximately 114 wells in Anderson County for delivery into the main pipe lines serving Kansas City and several cities and towns in northeast Kansas. The main engines, single acting twin units rated at 160 horsepower each, will be installed early next month.

Normal pressure of wells in the Welda field has dropped below that maintained in the pipe lines, making the new station necessary to enable producers to market their gas and continue earnings on their investments. The Welda field, less than two and a half years old, at one time produced 450 million cubic feet open flow at an original rock pressure of 280 pounds. Operation of the new station will prolong the life of the field materially, conserving the gas, and insuring domestic customers continued service over a longer period.

The history of the Welda field, an extension of the original Colony field, is comparable to that of many other early Kansas fields. Depletion is fairly rapid and the pipe line company is forced to provide artificial means of delivering the gas remaining in the producing horizon after the natural pressure in the wells drops below that in the pipe line system.

Pipe line receipts of the Empire Companies for the month of July showing the daily average, deliveries and stocks are:

	Total Bbls.	Daily Av. Bbls.
Pipeline receipts	850,573.94	27,437.87
Pipeline deliveries	735,385.30	23,722.11
Stocks August 1, 1924	3,342,617.46	

Pipe Line Runs in Montana, Second Quarter, 1924

CAT CREEK FIELD

Operator, Lease, Well Nos.	Barrels	Totals
FRANTZ CORPORATION—		
Brown No. 1	120.28	
Brown Nos. 3, 4	4,127.36	
Brown Nos. 6, 7	4,182,42	
Charles No. 2	1,827.48	
Clayton 7, Nos. 1, 5, 6, 9	40,001.86	
Clayton 7, Nos. 2, 3, 4, 7, 8, 10, 11, 12	28,956.21	
Clayton 7, Nos. Gov't 1, 2, 3,	10,068.68	
Clayton 7, Green Nos. 1 to 9, inclusive	61,218.86	
Fifer, No. 1	125.00	
Harlan Nos. 1 to 6 inclusive	9,396.90	
Wood Nos. 2, 3	1,890.94	
Totals		161,915.99
MID-NORTHERN OIL CO.—		
Benson, Nos. 1, 2, 3	1,697.42	
Clayton 10, Nos. 1, 2, 3, 4	4,140.36	
Clayton 10, Wildschultz Nos. 1 to 4 inclusive, 6, 7, 8.	40,041.01	
Clayton 18, Nos. 1, 2, 3	4,501,.40	
Clayton 18, Green Nos. 3 5, 10, 12, 15, 17	17,015.78	
Cleary, Green Nos. 1, 8, 14, 16, 18, 19	19,961.32	
Cleary, Green No. 7	701.52	
Cleary No. 1	2,982.92	
Clayton 10, Catlett No. 4	3,378.28	
Geyser 3, Catlett Nos. 1, 2, 3, 5, 7	25,700.10	
Fifer	801.88	
Total		120,921.99
CALIFORNIA CO.—		
Van Tassell, Nos. 1, 2, 4, 6	13,712.77	
Total		13,712.77
"56" PETROLEUM CORP.—		
Ihde (56 Petroleum), Nos. 1, 2, 3, 4, 6, 7, 8, 9, 10, 11	1,411.20	
Ihde (Moulton O. & R.), Nos. 1, 2, 3, 4, 6, 7, 8, 9, 10, 11	9,292.92	
Ihde (Yale Oil Corp.), Nos. 1 to 11 inclusive	17,019.82	
Ihde (Yale Oil Corp.), No. 1	391.50	
Total		28,115.44
ARRO OIL & REFINING CO.—		
Miller (Great Western), Nos. 1, 2, 3, 4	4.247.68	
Miller (Hover Schwartz), Nos. 1, 2	1,924.22	
Miller (Lucky Strike), Nos. 1, 2	1,166.00	
Miller (H. H. Schwartz, Jr.), Nos. 1, 2, 3	1,491.36	
Miller (Thermp. C. Creek), Nos. 1, 2, 3, 4	2,807.24	
Miller (Unit Petroleum), No. 1	365.86	
Total		12,002.36
HOME STAKE OIL CO.—		
Homestake-Benson, Nos. 1, 2, 3, 4	4,480.78	
Homestake-Oldham, Nos. 1 to 13 inclusive	33,672.10	
Total		38,152.88
WEST DOME OIL CO.—		
West Dome-Rhens, Nos. 2, 3, 6, 7, 8, 11, 12, 13, 14	7,261.26	
West Dome-Rhens, No. 4	166.36	
Total		7,427.62
GOLDEN WEST SCHOOL, Sec.—		
Well No. 1, No. 1	1,669.56	
Total		1,669.56
TIP O'NEILL—		
Well Nos. 1, 3	1,636.80	
Total		1,636.80
GEYSER NO. 3—		
Catlett No. 6	570.36	
Total		570.36
FRADD—		
Well Nos. 1, 2, 3	1,513.10	
Total		1,513.10
TOTAL CAT CREEK, 2d Quarter		387,638.87
TOTAL CAT CREEK, 1st Quarter		416,186.17

SUNBURST FIELD

TOTAL MUTUAL OIL COMPANY, 2d Quarter	26,073.90
OHIO OIL COMPANY, 2d Quarter	263,734.32
HOMESTAKE EXPLORATION CO., 2d Quarter	62.42
FRANKLIN OIL CO., 2d Quarter	184.91
STANDARD REFINING CO., 2d Quarter	7,204.05
ALBERTA REFINING CO., 2d Quarter	6,042.49
SUNBURST OIL & GAS CO., 2d Quarter	5,260.94
VANMEER OIL SYNDICATE, 2d Quarter	6,095.16
SEATTLE, FOSTER OIL CO., 2d Quarter	7,451.37
L. O'NEILL	3,745.80
Total	325,854.36
First Quarter, 1924, Total	22,879.69
TOTAL RUNS, Cat Creek and Sunburst Fields for 1st Quarter	435,065.86
TOTAL RUNS, Cat Creek and Sunburst Fields for 2d Quarter	713,493.23

New Rules Governing Louisiana Gas Wells

Department of conservation issues two letters giving instructions under new legislature

Shreveport, La., Aug. 18.—H. W. Bell, supervisor of the minerals division of the Louisiana Department of Conservation, has recently prepared and distributed for the instruction of oil and gas producers in the state of Louisiana two circular letters regarding recent legislation affecting their operations.

One, addressed to operators in the Cotton Valley, Shongaloo and Sarepta structures, reads in part as follows:

"Reduce the wastage of gas from oil wells in every way possible. Natural flow through tubing offers a means of doing this, especially after the pressure is reduced somewhat. Gas or compressed air can be saved by tubing wells before the possibilities of natural flow are gone.

"Gas that is being blown into the air while producing oil should be used for any useful purpose available. It is to be hoped that the proposed new gas lines (reference probably being to Magnolia's line from Cotton Valley o Beaumont) will be able to handle a considerable portion of this gas. The raising of fluid by means of gas instead of compressed air is an economical and efficient use of gas. It is, however, important that this procedure be limited to the use of separated gas from oil wells.

"Increase your vigilance in the matter of polluting the streams with oil and salt water. The oil especially can be taken care of in pits and reclaimed or burned before heavy rains or other circumstances cause it to get into the natural drainage.

Particular attention also is directed to the provisions of Act No. 252 (Senate Bill No. 237), which provides that "Each (gas) well shall be equipped with a meter"; and, as set forth in Section 3 thereof, "The percentage of the open flow capacity that gas wells may be allowed to produce or that may be drawn from each well shall depend upon the acreage upon which the well is drilled," as follows:

"When a tract of 160 acres of land or more has one producing gas well on it, there may be taken from such well no more than 24 per cent of its open flow capacity."

The percentages shown below may be drawn from wells located on tracts of smaller size.

One Well per (Acres)	Allowable Withdrawal
80	21 per cent
40	18 per cent
20	15 per cent
10	12 per cent
5	9 per cent
Less than 5 acres	7 per cent

Section 3 also contains the following clauses:

"When the acreage on which any well is drilled is between any two of the above classes, the percentage of its open flow capacity that such well may produce shall be in direct proportion between the percentage that a well on the larger acreage will be allowed to produce and the percentage that a well on the smaller acreage will be allowed to produce.

"Where the percentages hereinabove provided applied to any well reduces the amount allowed below one million cubic feet, there may be taken from such well a total of one million subic feet, provided the back pressure as elsewhere herein provided for shall be maintained.

"When two or more wells are drilled on one tract, as above described, for the purpose of determining the allowable percentage that such well may produce, the tract shall be divided by the owner or lessee into two or more tracts of smaller class; and the allowable percentage determined by the rules governing the smaller tracts.

"All wells shall be drilled as near the center of the acreage units above provided for as is practicable, but in no case to extend one hundred feet from the center, and the commission of conservation shall not issue a drilling permit that will violate the provisions hereof.

"Provided that the percentage of the open flow capacity of each well as fixed in this section depending on location, shall not apply to any well or wells heretofore drilled or to a well or wells the drilling of which was commenced on or before June 24, 1924; and provided, also, that all wells hertofore drilled or the drilling of which was commenced on or before June 24, 1924, or for the drilling of which bona fide contracts by the terms of which the lessee is obligated and compelled to drill a well or wells on the property embraced and described in such contracts and for a breach of which contract or contracts so to drill an action for specific performance or damages will lie against the lessee and which said contracts were on file prior to June 24, 1924, in the office of the clerk of court in the parish in which the property to be drilled is situated, shall be allowed to produce the same percentage of the open flow capacity that such wells could produce under Act 91 of 1922. And provided further that offset wells, located diagonally or opposite and equidistant from the property line may be drilled to all wells heretofore drilled or the drilling of which was commenced on or before June 24, 1924, or to wells for the drilling of which bona fide contracts were on file prior to June 24, 1924, in the office of the clerk of court in the parish in which the property to be drilled is situated, and such offset well or wells shall be allowed to produce the same percentage of open flow capacity as the well or wells so offset."

Circular letter No. 21, signed by the supervisor of the minerals division, states that "The law does not define an offset well; and therefore this department will promulgate a regulation defining as follows:

"A well, the drilling of which was commenced on or prior to June 24, 1924, is not subject to offset and equal percentage production (1) unless the offset well can be drilled a distance from the boundary line equal to that of the well to be offset, without receding from the boundary line, in a perpendicular direction, more than half the width of the tract which was proposed to be drilled, (2) unless the offset well be considered to occupy 40 acres when the tract is that large, except that, in cases of intensive drilling around a small tract, the commissioner of conservation may allow as little as 20 acres per offset well proposed to be drilled, (3) unless the adjoining tracts were held by different lessees or by different fee owners on June 24th, 1924, (4) unless the offset well is drilled within the range of the perpendiculars to the boundary line at the limiting points of contact with the property having the well to be offset.

"The new law provides that a well shall be drilled in the center of its tract if possible and in no case over 100 feet from the center. This department will require in most cases an affidavit from a registered surveyor as to the exact location of each well.

"The new law became effective the last of July. In order to avoid misunderstandings, it is requested that operators discuss with us the production features of proposed new wells before starting drilling. We desire to co-operate and enforce the law and regulations as harmoniously as possible."

Secretary Joseph B. Elam, of the Louisiana-Arkansas division of the Mid-Continent Oil and Gas Association, 724 Giddens-Lane Building, Shreveport, La., has prepared a very comprehensive booklet containing a complete report of the proceedings of the last legislature, in so far as they relate to the oil and gas industry, exclusive of the carbon black industry.

Col. R. W. Stewart of Chicago, chairman of the board of the Standard Oil Company (Indiana), is on a trip to the Rocky Mountain region, where he is making Casper his headquarters.

And you get paid for it. Page 23 has the details

Wells in Cotton Valley Southwest Extension Show Large Flow Dry Gas

Shreveport, La., Aug. 18.—Five big gas wells have now been completed in the southwest extension to the Cotton Valley Field; but, to date, not one of them has ever produced a drop of oil. With but a single exception, each test has, in its turn, been drilled more deeply into the sand than its predecessors in an effort to penetrate through the gas yielding horizon and tap the level of the oil-bearing sand, if such there be.

As a result, the latest completion, the Invincible Oil Company's No. 1 Crichton, which came in last Thursday night, is 28 feet deeper, below-sea-level, than the Fortuna Oil Company's Cox well, in section 23, a mile and a half east, which first extended the field south, and 23 feet deeper than the Ohio Oil Company's No. 1 Crichton, in section 21, which directly offsets, and which first opened up the southwest extension. The Invincible's well is credited with an initial production of from 40 to 50 million cubic feet of dry gas per day from twenty-three feet of pay at a total depth of 2,550 feet; elevation 222 feet.

The bottom of the hole in the deepest of these extension gas wells is only 2328 feet below sea level. The oil wells on the northern slope of the structure produce from total depths ranging from 2,335 feet to 2,355 feet below sea-level. Hence, there appears a strong possibility that none of the southern gas wells has been drilled deep enough, by six or eight feet, to reach the oil level. However, the entire absence of oil spray is regarded by some as a contrary indication, suggesting the possibility that no oil at all may be found on the southern flank of the structure. If the cautious policies of the past are continued, and unless some operating company decides upon a bold stroke and drills to deeper levels, it may require two or three more tests to determine the oil producing possibilities of the southwestern extension.

The Invincible Oil Company may drill in during the latter part of the week in its No. 1 Lindsey, in section 22, which offsets the Hude & Aarnes gasser, and in which casing has been cemented at 2,450 feet. Hude & Aarnes are nearing the final casing seat in their No. 2 Cox, as also is the Ohio Oil Company in its No. 1 Bank of Cotton Valley, both of which offset completed gas wells. The Ohio Oil Company's test in its R. L. Holloway No. 1, in section 23, offsetting the Fortuna Oil Company's Cox gasser, has been delayed by a fishing job. It will not be bailed until the liner has been fished out and re-set, which is awaiting the arrival of a new string of drill stem. Liner is stuck 46 feet above the bottom of the hole.

One of the Fortuna Oil Company's Merritt gushers, in section 14, the completion of which was described in our last issue, has gone dead; and it will not be cleaned out until additional storage can be provided to handle its production. The other has been choked in, and is making only a few hundred barrels of oil per day.

Sarepta

The Atlantic Oil Producing Company's Bodcau Lumber Company producer, in section 24-23-12, has been cleaned out; and will be put back on the beam at once. Col. Estes' well, in section 15-23-12, continues to flow from 10 to 50 barrels of oil per day. It has not yet been standardized.

Urania

The Stovall Drilling Company's No. 2 Louisiana Central Lumber Company, in section 27-10-2e, of La Salle Parish, has been drilled to a depth of 2,000 feet, where a string of 4½-inch casing will be set on a packer to exclude salt water from the 1400-foot horizon. The Bur-Ban Oil Company is drilling at 1,750 feet in its No. 2 Urania, in section 21-21-2e. The Urania Petroleum Company is drilling ahead slowly and carefully at 1,415 feet in its No. 4 Urania Lumber Company in section 20-10-2e.

Oakland

Frankel Brothers have cemented six-inch casing at 2,082 feet in the Tex-Unity Oil Company's No. 1 Breazeale, in section 30-23-2w, of Union Parish. Costello et al have began drilling; and are down below 650 feet in their Nelson wildcat, in section 17-23-1w.

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Arkansas Light Oil Increase Offset by Decline of Heavy

El Dorado, Ark., Aug. 18.—Average daily production of Smackover light oil shows an increase of several hundred barrels this week; but this more than offset by a decline of approximately 4,000 barrels per day in the production of heavy oil.

Smitherman & McDonald report the completion af a gas well on their McKinney Lease, in section 10-14-21, of the Irma Heavy Oil Field, in Nevada county. It is credited with an initial production of 8 million cubic feet per day from a total depth of 1,165 feet.

Morefield et al are bailing today in their McDaniels wildcat, located six miles northwest of the Louann Field, in section 28-14-17, Ouachita County. A test is being made of six feet of sand at a total depth of 2,211 feet. No showing of oil or gas has as yet been observed.

A windstorm which swept through the Stephens Field at about 5:30 o'clock Saturday afternoon caused the loss of a total of seventeen derricks. Heaviest damages were suffered by the Shaffer Oil & Refining Company, which lost a total of ten. The North Central Texas Oil Company lost three; and Hude & Aarnes and Keene & Woolfe lost two each.

W. C. Teagle, president of the Standard Oil Company (New Jersey), has returned to New York after a business trip in England and other countries in continental Europe.

Archer County Pools Show Good Average

North Texas area production holding up despite drilling reaction to lower crude price levels

By H. H. King

Wichita Falls, Texas, August 19.—The numerous semi-shallow pools and fields in Archer County continue to afford a high yield per well despite the fact that the volume of new production has been greatly reduced during the past two months owing to forced curtailment of drilling operations because of the decline in crude demand. During the month of July the county maintained a daily average of 31,185 barrels from 1143 pumping wells, or an average of 27.28 barrels daily per well, while during January of this year there were only 701 producing wells in the county, but were doing 20,380 barrels daily, or an average of 29.07 barrels per well per day. This high yield per well during January was largely due to flush production coming from new completions in the Wilmot-Wilson and Sunshine pools, but the natural depletion of the early wells has trimmed this yield almost 50 per cent in these two areas.

The Swastika pool, located in the southwest part of Archer County, is maintaining a higher yield per well than any other important producing area in the county, and during July averaged 45.08 barrels daily per well from 61 pumping wells. The production in this pool is found in a sand at a depth between 1300 and 1400 feet, while the thickness of the pay ranges from six to 24 feet, with the oil production testing 40 gravity and above.

Contrary to the experience of operators in some of the other important fields in Archer County, water trouble in the oil sand is not a serious problem in the Swastika pool, and only a small percentage of the producing wells are making water. Instead of developing water trouble as oil drainage gets underway, some of the pumping wells have been known to increase their production for weeks after being installed on the jack. Although the oil sand underlying the Swastika pool is probably thicker on an average than in any other pool in the county it is of interest to note that it does not blanket the pool, but exists in spots with no production in between. Geology can be applied fairly successfully in locating these high spots, and a number of geological locations are now being tested out to try and expand the field.

The Shamrock Oil Company has been the most successful of all operators in the Swastika pool, and now controls most of the production, with a daily average running in excess of 2200 barrels. This company has more than 200 acres of actual producing leases, and has about 1560 acres in and around the pool. Two new producers were added last week by Shamrock with an initial production of 100 barrels each, which is the average initial production for the field, and seven additional tests are shut down on the sand pay ready to be drilled in. The Texhoma Oil and Refining Company and Wichita Pipe Line Company have four-inch lines connecting with the field while a third outlet is under construction by the Humble Pipe Line Company. Development in the Swastika area will show considerable increase when the crude market returns to a stable position, and until recently the producers have experienced difficulty in marketing all their crude owing to inadequate pipe line facilities.

The Wilmot-Wilson field, which expands over a wide area in the north central part of Archer County in a series of small pools, is credited with having maintained a daily average of 18,495 barrels per day during the month of July from 464 pumping wells, or an average of 39.86 barrels daily per well. This field offers production from sands at 1300 and 1600 foot levels, and has contributed more large wells than any other field in the county. It reached its peak in drilling operations last May, and has since been on a steady decline because of proration of runs and lack of a market for the oil as produced, except at sacrifice prices. Rather than to drain their leases and sell their oil at below market prices, the producers have stacked their rotary rigs on the leases to await a better market. Although the flush appears to have been taken off the Wilmot-Wilson field, many inside locations remain to be drilled and the limits of the producing area are not yet defined on the east, northeast and southeast sides. A number of dry holes have been drilled within and on all sides of this field, but the operators are proving that production may be picked up again just beyond a failure.

The other important fields in Archer County appear to be virtually defined, and only a negligible amount now drilling is underway or planned. These fields can now be classed as settled production, and the average crude yield per well per day ranges from 11½ to 24 barrels per well. This oil is lifted to the surface in most instances from central power plants, while a few of the leases are pumped with gas engines, although the gas supply is very limited. Salt water trouble prevails throughout the old fields, owing to the closeness of the water to the oil sand, but the operators are able to meet this situation without any great difficulty, and do not become alarmed when water puts in its appearance. Vacuum is not generally used in Archer County fields because of this water trouble.

Nearly a half-dozen new pools are in the making in Archer County by reason of recent wildcat discoveries, and a vast amount of proven and semi-proven territory is awaiting the drill as soon as market conditions justify. The Green-Flowers and Comac area, located about eight miles north of the Swastika pool, is one of the most promising sections in the county, while a shallower pool has been uncovered several miles to the southeast on the Wm. Baker survey.

The Waite Phillips wildcat producer located three miles southwest of the Sunshine pool, is the latest addition to the county of any importance, and increased to 225 barrels of pipe line oil daily after being on the pump a few days. A new pool has been opened up on the Graham-Pease land, located near the Little Wichita River, while an excellent shallow pool is being developed on the Ragle land on the Archer-Young County line. Last April an entirely new pool was uncovered from 1020-foot sand on the Cowan-Turbeville land in the Jefferson County School Land survey, and early last month a new pool was opened up two miles southeast of Megargel from a 1400-foot sand. The northeast corner of Archer County also came in for oil production recently when Bill Champion and others completed a small pumper from sand at 475 feet on the Browning land.

An entirely new producing area for Wichita County was definitely established last week when a wildcat test drilled by Parker Brothers and others on the M. A. Love farm, W. S. Kennard survey, abstract 171, pumped about 100 barrels of flush oil from the hole during a six hour test. This well is located about three miles northeast of the Hill and Roberts pool, and is producing from a sand at 1811-12 feet. It is more than one-half mile from any dry holes, and is generally considered an important discovery, but lease trading has not been very brisk, as is usually the case when a new pool is opened up in the county. S. A. Cochran and others' semi-wildcat test on the A. J. Weeth farm, S. P. Ry. survey, abstract 277, is estimated good for 15 barrels from sand at 1690 to 1710 feet while preparing to pump. It is located due north of Iowa Park.

The production figures for July on the various fields in Archer County are given below:

Field—	Producing Wells	Daily Aver. Prod.	Aver. per well Bbls.
Wilmot-Wilson	464	18,495	39.86
Ferguson	307	4,035	13.14
Swastika	61	2,750	45.08
Peterson	89	2,210	24.83
Sunshine	85	1,735	20.41
Texhoma-Gose	84	965	11.49
Holliday	39	525	13.46
Wildcats	14	470	33.57
Totals	1,143	31,185	27.28

The other fellows would like to know about that idea of yours—See page 23

Completions for Past Week in U. S. Fields

Summarized Review of Field Results

State—	Completions This Week	Completions Last Week	Producers This Week	Producers Last Week	Gas Wells This Week	Gas Wells Last Week	Failures This Week	Failures Last Week	Initial Production This Week	Initial Production Last Week
Oklahoma	111	70	79	46	8	2	24	22	57,825	28,842
Kansas	29	14	15	8	2	..	12	6	1,970	3,381
Texas	70	79	44	53	1	3	25	23	11,986	11,440
Arkansas	25	32	20	28	2	..	3	4	2,445	2,980
Louisiana	10	17	3	4	7	8	..	5	235	575
Eastern States	163	193	134	136	12	34	17	23	1,651	2,317
California	24	17	23	17	..	..	1	..	9,205	4,680
Totals	432	422	318	292	32	47	82	83	85,317	54,215

Note—Following is the explanation of abbreviations, signs, etc., used in completion and wildcat reports: *—dry hole, abandoned well; ‡—salt water; †—junked and abandoned; ¶—million cubic feet of gas; abn—abandoned; bbls—barrels; b. s.—basic sediment; cas—casing; co—cleaning out; dk—derrick; dr—drilling; fsh—fishing; ft—feet; in—inches; lcn—location; m—milling; N. S. E. W.—North, South, East, West; r—reaming; sd—shut down; sdtr—sidetracking; sp—spudded; sr—straight reaming; std—standardizing; sw—salt water; td—total depth; ur—under reaming; wo—workover; wosr—waiting on standard rig.

California

NORTH CALIFORNIA

Company, Well and Location	Initial Production Bbls.	Depth
Elk Hills—		
Pacific Oil Co.'s No. 113, section 27-30-24	1150	3398
No. 103, section 35-30-24	250	2980
Union Oil Co.'s Elk Hills 6	345	3761
Hovey Hills—		
Formax Oil Co.'s No. 16, Sec. 36-32-23	150	1200
Midway—		
Midlands Oil Field's No. 8, Sec. 24-31-23	800	3625
McKittrick—		
Sandberg Pet. Co.'s No. 1, Sec. 11-27-28	*	1778
Coalinga—		
Boychester Oil Co.'s No. 1, Sec. 18-21-15	75	3029

SOUTHERN CALIFORNIA

Company, Well and Location	Initial Production Bbls.	Depth
Torrance—		
Shell Co.'s Dolores 1	30	3670
Scarborough 6	200	3850
Scarborough 11	300	3850
Bluemle 5	350	3860
C. C. M. Oil Co.'s Del Amo 19	260	3660
Torrance 60	450	3705
Superior Oil Co.'s Joughin 44	325	3833
Sentinel Oil Co.'s Joughin 11	300	3850
Bernard LeMohn's No. 1	250	3850
Petroleum Midway's Logan 3	150	3850
Long Beach—		
General Pet. Corp.'s Black 2 (wo)	120	4000
J. W. Henderson's No. 1 (wo)	160	5016
Keck Synd.'s No. 4 (wo)	250	3974
Santa Fe Springs—		
General Petroleum's No. 17	40	4730
Standard's Houghton 2	100	4689
Rosecrans—		
Superior Oil Co.'s Maxwell 1	1150	4397
Domingues—		
Shell Co.'s Childs 1	2000	4223

Texas

ARCHER COUNTY

Company, Well, Location—	Initial Production Bbls.	Depth
Barnes & Bishop's L. F. Wilson 2	*	1610
Camp Oil & Gas Co. et al L. F. Wilson 3-C	50	1600
Falls Co. School Land 1	*	1806
Cooper-McLaughlin et al L. H. Farmer 1	†	1180
Chancellor & Sparks' Zotz 1	*	1630
Clark-McGee et al Miller-Scruggs 5	65	1349
Griswold Oil Corp. L. F. Wilson 3-D	*	1630
Stanley-McGregor et al Llewellyn 3	165	1399
Magnolia Petroleum Co. W. F. Parrish 1	100	1598
Murchison & Fain's Richardson-Goldsmith 3	*	1375
R-F Oil Corp. A. P. Nichols 2	190	1617
Shamrock Oil Co. J. T. Richardson 9-B	100	1340
Swastika Oil Synd. Richardson-Goldsmith 6	100	1329
Tucker & Langford's Mrs. J. H. Carter 5	*	1675
Whitney & Everest's C. A. Krebs 1	*	1855
Wilmut Farm Oil Co., H. Wilmut 6	75	1600
Woodburn (Simms) Oil Corp. L. F. Wilson 10-A	35	1607

YOUNG COUNTY

Company, Well, Location—	Initial Production Bbls.	Depth
Humble Oil & Ref. Co. Vick-Graham 1	*	3045
O'Neal et al G. P. Robertson 1	*	1310
J. F. Riley et al J. A. Buster 1	*	830
Russell et al S. M. J. Benson 2	60	885
States Oil Corp. Fee 1	*	3730

BURKBURNETT

Company, Well, Location—	Initial Production Bbls.	Depth
G. W. Cooper et al Michna 1	*	1830

ELECTRA

Company, Well, Location—	Initial Production Bbls.	Depth
Burnett Ranch Oil Co. Burnett Estate 7-B	150	1588
Humble Oil Ref. Co. Burnett Estate		
Tucker & Langford's Mrs. J. H. Carter 3-B	15	1585
J. & J. Oil Co. Waggoner Bros. 27	30	1520
H. Lee et al S. H. McCarty 2	325	1696
Magnolia Petroleum Co. Rio Bravo 38	30	1436
Panhandle Ref. Co. S. H. McCarty 6	25	1695
J. J. Perkins & Cullom's Burnett Estate 8	100	1816
Texas Prod. & Shippers Co., Ltd. Goetze 8	*	900
United Central Oil Corp. S. H. McCarty 10	80	1694

K-M-A & IOWA PARK

Company, Well, Location—	Initial Production Bbls.	Depth
Griswold Oil Corp. Parker 2	80	1266
Parker 3	20	714
Parker Bros. et al M. A. Love 1	105	1812
United Central Oil Corp. Mrs. Murray 1	*	1818

DESDEMONA-GORMAN

Company, Well, Location—	Initial Production Bbls.	Depth
Magnolia Petroluem Co. Wright-Eison 4	10	2840
McLester et al Gailey 1	*	3540

STEPHENS COUNTY

Company, Well, Location—	Initial Production Bbls.	Depth
States Oil Corp. Sikes 1	¶43	3365
Sun Oil Co. Boones 2-DD	†	3280
The Texas Co. Heatly 8	250	3180
Thompson Oil Corp. Williams 4	160	2075

RICHLAND

Company, Well, Location—	Initial Production Bbls.	Depth
Oxford Oil Co.'s Davis "B" 2	600	2980
W. B. Tucker et al's Davis 2	1350	2950

CORSICANA-POWELL

Company, Well, Location—	Initial Production Bbls.	Depth
Birdwell & Gray's Harvard 3	30	1000
Simms Oil Co.'s Coleman 1	10	2110
Williams et al's G. Boyd 2	30	1010

GULF COAST

Company, Well, Location—	Initial Production Bbls.	Depth
Saratoga—		
Paggi Bros.' Lewis 4	*	1500
Sun Co.'s S. S. P. & F. 170	25	625
Batson—		
Paraffine Oil Co.'s Knight 38	15	450
Goose Creek—		
Inca Prod. Co.'s Duke 1	200	3475
Sour Lake—		
Lake View Oil Co.'s Hardin 39	6	1600
Hull—		
Republic Prod. Co.'s Dolbear 13	*	3590
West Columbia—		
The Texas Co.'s Hogg 80	350	2800
Orange—		
Atlantic Oil Prod. Co.'s Hager 3	20	3325

MIRANDO

Company, Well, Location—	Initial Production Bbls.	Depth
Cin-Tex Pet. Co.'s 6	125	....
Associated Oil Interests' 12	60	....

LULING

Company, Well, Location—	Initial Production Bbls.	Depth
Magnolia Pet. Co. Shubert 9	2000	....
United North & South Oil Co. Maggie Moore 2*	800	....
Maggie Moore 3	800	....
Maggie Moore 6	500	....
Maggie Moore 7	900	....
Mills-Mercer 9	500	....
Alden A-20	1300	....
National Oil Co. Hensel 1	*	....

Kansas

Company, Well, Location—	Initial Production Bbls.	Depth
Chautauqua County—		
Mid-States Cunningham 1, NWc NE SE 4-32-11	*	2305
Clay County—		
Gentles et al H. Doyle 1, SEc 36-7-4e	*	2601
Cowley County—		
Southwestern Pet. Co. Allen 1, SEc SW NE 18-32-6	*	3475
Shawver & Sutter Eastman 1, NEc NW SE 6-31-6	125	2887
Southwestern Pet. Co. Eastman 2, SEc NE 6-31-6	240	2849
C. W. Titus Elliott 2, SEc 31-30-6	30	2887
T. B. Slick's 1, NWc NE 23-34-8	*	3125
Elk County—		
Baxter & Mitchell Denton 3, C NE SW 4-30-9	¶	1614
Greenwood County—		
Mission Oil Co. Thrall 4, C W L NW SW 32-23-10	175	2307
Mid-Kansas Martindale 9, SEc SW 31-23-10	225	2366
Martindale 5, NEc SE 31-23-10	200	2330
Martindale 4, SEc NE 31-23-10	200	2341
Mission Oil et al Thrall 38, C S L SE 29-23-10	70	2345
Henderson & Holden Hale 1, C SE NW SE 11-23-10	*	2300
Huston-Okla. Oil Co. Sullivan 7, NWc SW NW 14-24-12	35	1759
Sullivan 5, NWc SW SW 14-24-12	50	1792
Reverly et al Henderson 2, C E L NE NE SE 22-24-9	175	2214
Henderson 1 C E L NE SE 22-24-9	230	2199
Rogers et al Cartwright 6, NWc SE NW 6-24-10	50	2360

Company, Well, Location—	Initial Production Bbls.	Depth
Prairie O. & G. Co. Helman 9, C NE SW 14-24-9	140	2186
Arkansas Fuel Oil Co. Marshall 4, C W½ SW SW 1-24-9	*	2450
Anderson Bros. Craig 1, C SW SE 16-29-9	*	2340
Anderson et al Orr 1, C SE NE 17-29-12	¶	1832
Marion County—		
Douglas & Yonkers' 1, SEc NW 22-18-4	*	2640
Amerada Pet. Corp. Russell 1, SEc NE 15-22-3	*	3051
Russell County—		
Streeter & Stearns Dodge 1, SEc SW 29-11-15w	*	2535
Trego County—		
A. D. Morton Kyser 1, SWc NE 9-11-22w	*	1406
Washington County—		
Barnes Oil & Gas Co. Wickham 1, SEc SW 9-5-5e	*	1400
Woodson County—		
Okla. P. & R. Co. Stevenson 8, NWc 5-24-14	25	1726

Oklahoma

Beckham County—		
Santrock & Custis Steadman 1, SWc SE NW 14-9n-23w	*	3005
Burbank Field—		
Carter Oil Co.'s 9, C W L NW SW SE 16-26-6	420	2940
12, C NE SW SW 16-26-6	420	2968
Phillips & Skelly's 7, C E L NE SE NE 7-26-6	35	2862
Twin States McCassey 15, C NE SW NW 15-27-5	60	3000
Phillips Pet. Co.'s 3, C W L NW SW SE 20-27-6	100	2945
Mid-Kansas' 5, C E L SE NE NW 26-27-5	50	3006
Laurel O. & G. Co. Mahojah 3, C SW NE SW 4-27-5	150	2914
Phillips-Skelly's 12, C E L SE NE NE 26-27-5	75	3037
11, C SW NE NE 26-27-5	100	3034
8, C E L NE SE NE 26-27-5	150	3003
Skelly Oil Co. Clubb 1, C N L NE NW SW 9-27-5	100	2959
Caddo County—		
Briscoe & Hall Headlund 3, NEc SE NE 11-5n-9w	400	2417
English Drlg. Co. Headlund 3, NWc SW NE 11-5n-9w	325	2278
Carter County—		
Amerada Pet. Co. Kirby 1, SEc NW 20-5s-1e	40	1816
Pure Oil Co. Lowrey 31, C SW NE SE 4-4s-3w	75	4092
Patsy Oil Co. Pitman 7, C NE NE NE 6-3s-2w	70	2832
Arrington 3, C NE NW NE 6-3s-2w	50	2792
Acco Oil Co. Arrington 1, C NE NE NW 6-3s-2w	*	3254
Schermerhorn Oil Co. Dickerson 1-A, C SW SE NW 5-3s-2w	80	3200
Wert Franklin Underwood 2, C SE NW SW 5-3s-2w	75	2452
Healdton Pet. Co. Westheimer 1, C NW NW SE 32-2s-2w	17	2850
Twin States Williams 3, C NE NW SW 23-2s-3w	90	2664
Williams 1, C SW SE NW 23-2s-3w	80	2440
C. R. Smith Davis 1, C NE SE SW 23-2s-3w	50	2539
Schermerhorn Oil Co. McGill 1, C NW NE SE 8-3s-2w	70	2535
Cameron Ref. Co. Voorhees 2, C SW NE SW 24-2s-3w	80	2078
Skelly Oil Co. Cruce 1, C SE NW NW 23-2s-3w	125	2767
Magnolia Pet. Co. Lehman 4, C SW NE SE 23-2s-3w	¶	3000
Johnson 1, C SE SE NE 32-1s-3w	15	2673
Creek County—		
Tidal Oil Co. Sanders 4, C SE SW NE 16-16-9	*	3001
E. L. Kistler et al Scott 1, NWc SW NW 21-14-10	100	3378
C. G. Tibbens Sneed 2, NWc NE NW 18-14-9	5	2376

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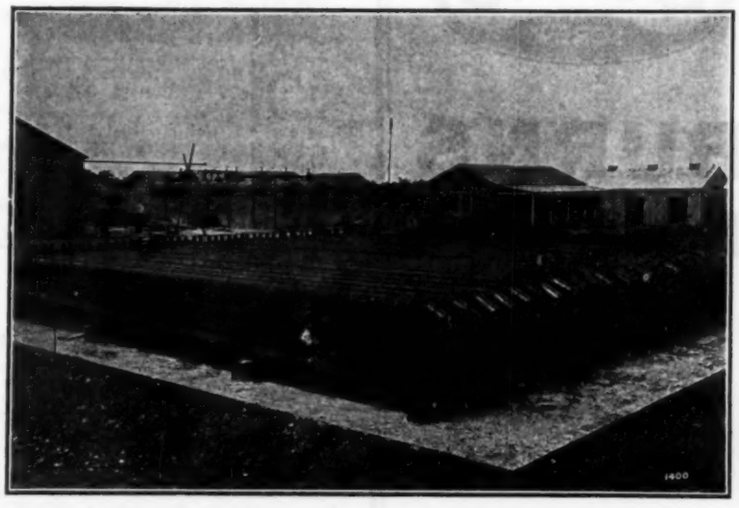

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Okmulgee, Oklahoma

Company, Well and Location	Initial Production Bbls.	Depth
White Oil Corp. Harrison 1, SWc NE 2-14-8	30	2504
Prairie O. & G. Co. Pitman 6, SEc NE NW 5-16-8	10	3541
Transcontinental Stidham 1, C N½ NW SE 21-17-8	*	3787
1, C S L SW SE SW 6-14-7	360	4161
Suppes et al's 1, Lot 22, Blk 13, 8-16-12	100	2396
2, Lot 4, Blk 25, 8-16-12	175	2091
J. J. Schock's 1, Lot 10, Blk 23, 8-16-12	400	2092
Riverland Oil Co. Marshall 7, C W L SW NE SE 8-16-12	30	2399
Marshall 5, SWc NE SE 8-16-12	150	2380
Boso Drlg. Co.'s 1, Lot 1, Blk 37, 8-16-12	80	2381
S. W. Anthony's 1, Lot 18, Blk 24, 8-16-12	200	2050
S. J. Smith Sapulpa 1-A, NWc SE 3-17-11	¶	1814
Garvin County—		
Texas-Pacific's 2, C SW SE SE 8-1n-3w	60	1630
Grant County—		
Walters O. & G. Co.'s 1, NEc NW 14-25-5w	*	3502
Leewright et al Edwards 1, SEc NW 20-26-4w	*	1100
Hughes County—		
Transcontinental Tiger 3, C SW SE NE 4-9-9	650	3311
Papoose Oil Co. Alexander 8, C SE SE SE 4-9-9	400	3310
Berry Pet. Co. Alexander 4, C NE NW SE 4-9-9	900	3335
Kay County—		
Marland Oil Co. Walkingsky 1, C NE SE 18-25-2e	201	3784
Dance et al Fairless 1-A, NEc NW SW 26-26-1w	*	3209
Mannahan & Otstot School 1, SWc NE NE 16-27-1w	¶	3433
Kay & Kiowa Oil Co. School 1, NWc SE 16-27-1w	*	3510
Comar Oil Co. Endicott 1-W, SWc NW SW 35-25-1w	1100	3925
Endicott 1-W, SEc NE SE 34-25-1w	4000	3988
Blackwell O. & G. Co. Corrigan 1-C, SWc NE SE 34-25-1w	5000	3982
Kannahan et al Slocum 3, NWc SE NE 16-27-1w	75	3431
Miller et al Poppan 1, SWc NE 14-28-4e	*	3640
Pennock Oil Co. Endicott 4-A, NEc SE SE 34-25-1w	1200	4016
Lincoln County—		
Willis et al's 2, Lot 13, Blk 10, 12-14-6	240	4148
Union Pet. & Supply Co. Townsite 3, C N L NW SE NW 12-14-6	600	4181
Amerada Pet. Corp. Lewis 3, N½ Lot 6, 12-14-6	425	4195
Noble County—		
Marland Oil Co. Miller 4, C S L SE NE 5-22-3e	660	4071
Comar Oil Co. Endicott 4-W, NEc 3-24-1w	3916	4179
Osage County—		
(Outside Burbank Field)		
Echo Oil Co. Chandler 1-A, SWc SE NW 7-20-13	*	1918
Gray Oil Co.'s 4, C NW NE 28-20-11	150	2370
Peer & Lorraine's 1, C S L SE SW SW 1-20-11	*	2354
Sand Springs Home's 79, C N L SW 12-20-10	*	2623
81, SEc 13-21-9	*	2760
C. B. Peters' 1, C W L SW SE 4-23-9	10	592
Marland Oil Co.'s 4, C N L NE NW NE 29-23-8	15	2915
12, C SE NW SE 20-23-8	974	2669

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Company, Well and Location	Initial Production Bbls.	Depth
Prime et al's 1, SEc 6-25-11	¶	1917
Test Log Oil Co.'s 1, C W L SE 31-25-9	¶	2326
New England Oil Co.'s 10, C W½ SE SW 19-25-9	60	2270
Wormster & McCune's 1, C W L NW SW 15-24-8	*	589
I. T. I. O. & W. Phillips' 1, NWc NE NE 14-24-8	*	2727
The Texas Co.'s 6, NEc 29-25-8	2160	2670
Owen Osage Oil Co.'s 299, NWc SW NE 28-28-11	*	1848
Marland Oil Co. Pettit 8, C SW NE SE 20-23-8	14400	2602
Pawnee County—		
Magnolia's Arkeketa 2, SEc NW 9-23-3e	15	4257
Holbrook & Bartlett's 1, Lot 12, Blk 101, 25-20-9	18	2007

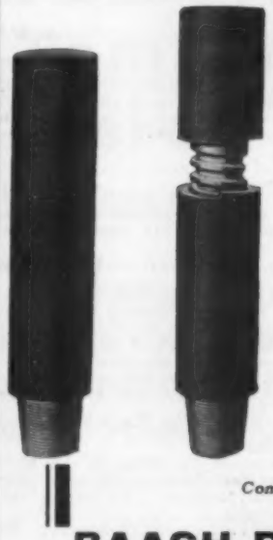
Company, Well, Location—	Initial Production Bbls.	Depth
Payne County—		
Garr Oil Co. Armour 2, NEc SE SE 8-19-5	305	2961
Seminole County—		
Amerada Pet. Corp. Joseph 1, C SE SE NE 29-8-8	*	3244
Shaffer O. & R. Co. Yarhola 8, C NE NE NW 22-10-8	5081	3483
Pure Oil Co. Bruner 1, C SE SE SE 9-10-8	1592	3462
Amerada Pet. Corp. Bruner 5, C SW NE SE 16-10-8	800	3011
Mid-Kansas Alexander 4, C NE NW NW 15-10-8	2240	3520
Central National O. Co. Dunn 1, C SW SE SE 4-10-8	980	3380
Shaffer O. & R. Co. Yarhola 4, C NE NW NW 22-10-8	1320	3457
Magnolia Pet. Co. Tiger 1, C N L NW SE 32-8-8	1206	3165
Roxana Pet. Co.'s 1, C NW NE NW 12-8-8	120	3400
Home-Okla. Oil Co. Brown 1, C NE SW SE 29-8-8	250	3185
Wilcox O. & G. Co. Bruner 5, C NW SW SW 15-10-8	1440	2495
Stephens County—		
Malernee et al Britton 2, C NW SW 20-1s-8w	¶	2010
Calhoma Oil Co. McMahon 4, C S½ NE SW 18-1s-8w	¶	2170
Magnolia Pet. Co. Wilson 6, SEc 17-2s-7w	*	2940
Harris 9, SWc NW NE 17-2s-7w	*	2940
Payne 1, NWc SW 19-1n-5w	*	1900
Tulsa County—		
Caldwell & Sons' 3, Lot 25, Blk 1, 8-19-12	*	2003
Shaffer O. & R. Co.'s 1-A, SWc NW SW 5-19-12	35	2047
Superior Oil Co. Johnson 3, SWc NE SE 26-19-11	230	2344
Wolfe Bros. Drlg. Co. Wilson 1-W, C N L NE SE SW 6-20-13	*	1905
Wade et al Drew 3, SEc NW 1-17-14	75	1278
Posey Short et al Jones 3, C SE SW 5-18-13	*	2305
Pennock Oil Co. Targee 1-W, C NW 28-19-12	¶	1355
Wagoner County—		
Shaw et al Shilders 1, C NE NW 23-17-16	*	820

Arkansas

Stephens Field—		
Atlantic Oil Prod. Co. W. H. Murphy 6, 14-15-20, Columbia county	15	2137
Irma Field—		
Smitherman & McDonald McKinney 3, 10-14-21, Navada county	¶8	1165
Smackover Field, Ouachita County—		
Clark & Mclat Murphy 1, 4-16-15	¶30-15	2268
Invaders Oil Co. Hardin 2, 28-15-16	50	2300
Mercury Oil Co. Hardin 2, 28-15-16	65	2306
Simms Oil Co. Gaskin 1, 30-15-16	200	2035
Standard Oil Co. Griffin 4, 33-15-15	200	2007
Sutton et al Hughes 3, 28-15-16	35	2323
The Texas Co. Stringfellow 7, 28-15-16	75	2311
Smackover Field, Union County—		
Black Duke Oil Co. Wilson 1, 19-16-15	200	2070
Bond Trust Powell 3, 19-16-15	300	2100
Cherokee Pet. Co. Burton 5, 25-16-16	500	2055
Crosby Trust Alphin 4, 29-15-16	15	2078
Gilliland Oil Co. Staples 4, 1-16-17	65	2260
Gulf Ref. Co. Werner 19, 5-16-16	60	2225
Werner 21, 6-16-16	50	2260
Imperial O. & G. Co. Morgan 1, 29-17-14	200	2190
Pure Oil Co. Lindsey 1, 29-16-15	70	2072
Lindsey 2, 29-16-15	90	2070
Riggs Drilling Co. Rice 2, 6-16-16	120	2270
Rutledge Trust Corruth 1, 7-16-16	35	2310
Southerland et al Neeley 2, 1-16-17	85	2260
Total, 20 wells	¶30-2430	

Louisiana

Caddo Parish—		
Dixie Oil Co. Robertshaw 62, 14-21-15	15	160
Mutual Oil Co. Raines 1, 22-21-15	5	160
Total, 2 wells	20	
Cotton Valley Field—		
Fortuna Oil Co. S. J. Merritt 2, 14-21-10	¶10-5000	25
L. Merritt 3, 14-21-10	¶10-3000	25
Invincible Oil Co. Crichton 1, 21-21-10	¶50	25
Standard Oil Co. McInnis 1, 22-21-10	¶35	25
Woodley Pet. Co. Merritt 3, 14-21-10	215	35
Total, 5 wells	¶105-8215	



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Company, Well, Location—	Initial Production Bbls.	Depth
Monroe Gas Field—		
Palmer Corp. Grayson 1, 12-19-4e, Ouachita Parish	¶34	2158
The Texas Co. Grayling Lumber Co. B-1, 32-21-4e	¶16	2142
West Virginia O. & G. Co. Fee 4, 4-18-5e, Ouachita Parish	¶5	2108
Total, 3 wells	¶50	

Eastern States

PENNSYLVANIA

Bradford Field—		
Hazelwood Oil Co. Bingham 370 acres tract 1	3	....
Hazelwood 1	4	....
Phoenix Oil Co. R. & C. 152	3	....
Dodge & Hilliard Hilliard 1	3	....
M. E. Jones Jones 1	5	....
L. G. Dana Dana 1	4	....
Huston & Lowry Lowry 8	3	....
W. C. Kennedy & Co. Kennedy 100.	3	....
Bingham 160 acre tract 46	2	....
Harmon Oil Co. Drake 1	4	....
W. J. Oliver Franchot 16	3	....
Carson & Whitehead Boyd 1	3	....
Hope Oil Co. Sill 1	3	....
Sill 2	3	....
L. J. Lilly Middaugh 1	4	....
Thompson & Son Borden 1	4	....
W. E. Burdick & Co. Skinner 1	4	....
Jos. Minnich Morse 1	4	....
C. H. Williams Moore 1	3	....
T. B. Wilson Borden 1	4	....
Pressure Oil Co. Howard 1	*	....
Griderion Oil Co. Duke 1	3	....
South Penn Oil Co. Shepard 1	3	....
Keating 1	3	....
W. B. Miller Borden 1	3	....
Studiel & Hardy Freeman 1	3	....
Nichols & Patton Keating 1	3	....
Venango County—		
Venango Oil & Land Co. Fee 213	3	....
Fee 214	5	....
E. Seiderman Hassen 46	4	....
Hassen 47	4	....
Geltz & Wilbur Lyle 40	4	....
Midland Oil Corp. Stevenson 31	5	....
S. Y. Ramage Styles 68	3	....
R. Whitling Waid 19	3	....
Oil City National Bank Rogers 12	3	....
Brundred Oil Co. Brundred 68	3	....
Commercial Bank Redfield 13	3	....
Butler County—		
Elliot & Co. Niblock 1	3	....
W. D. McCarrier & Co. Cambell Heirs 4	3	....
E. H. Hutchinson Wilson 1	*	....
Burke & Co. Ramsey 1	*	....
Criss & Co. Williams 3	2	....
Columbus Oil Co. Wick 1	2	....
Nehf & Co. Bach 1	2	....
Slagle & Garvin West 3	*	....
Clarion County—		
Alum Rock Gas Co. Anesler 6	¶1¼	....
J. C. Reed & Co. Reed 1	¶1	....
McLaurie & Co. Reed 5	¶1	....
Garvis, Mong & Co. Garvis 5	3	....
Croup & Co. Kiser 1	2	....
Mohney, Snyder & Co. Whitehill 2	2	....
Dale & Co. Dale 5	2	....
Center-Middle Field—		
A. E. Thompsett & Co. T. & W. Tract 63	3	....
Neeley & Son Neeley 1	3	....
Rock Grove Oil Co. Buingham 12	2	....
Homan & Co. Homan 1	2	....
Hawkey & Byers T. & W. Oil Lands 47	2	....

NEW YORK

Allegany County—		
Burr Oil Co. Burr 1	3	....
Lavens & Co. Lavens 1	3	....
W. W. Potter Lesure 1	2	....
Stebbins & Atwood Hestlane 1	2	....
Hestlane 2	2	....
Sawnett Oil Corp. Sawnett 1	2	....
Lester & Co. Lester 1	2	....
Empire Gas & Fuel Co. Quick 1	2	....
Parker & Co. Perkins 1	2	....
Empire Gas & Fuel Co. Childs 1	2	....
Pulnam & Co. Birtel 1	2	....

WEST VIRGINIA

Company, Well, Location—	Initial Production Bbls.	Depth
Pleasants County—		
Creek Oil Co. Rose-Ogden 2	3	2203
Riggs-Hood Oil Co. Perry Riggs 1	5	....
Wirt County—		
George B. Vance William Gibson 41	2	....
O. E. Grew Rose Whitcomb 18	*	....
Gilmer County—		
Hope Con. & Ref. Co. W. V. Miller 1	¶4	....
Carnegie Nat. Gas Co. E. M. Talbott 1	¶2	1665
Braxton County—		
Eastern Oil Co. C. T. Engle 1	150	....
Ritchie County—		
Hope Nat. Gas Co. Snow Bartlett 1	*	....

KENTUCKY

Company, Well and Location	Initial Production Bbls.	Depth
Johnson-Magoffin Counties—		
Oliver Jenkins Salyer Heirs 4	30	....
Salyer Heirs 5	30	....
C. E. Bosworth Paton Borders 1	2	....
Paton Borders 2	2	....
Virginia Gasoline & Oil Co. Green Risner 2	5	....
Bed Rock Oil Co. W. H. Connelly 27	5	....
Kentucky Counties Oil Co. C. Roark 5	10	....
Burning Fork Oil Synd. C. Roark 7	20	....
J. G. White White 3	5	....
Carter Oil Co. S. Salyer 2	8	....
Lawrence-Johnson Counties—		
Wiedemann Oil Co. W. Wright 3	25	....
L. White 9	15	....
Keaton Oil & Gas Co. J. Lyons 27	20	....
Cumberland Pet. Co. S. Hamilton 7	5	....
W. M. Boggs 6	5	....
A. Wheeler 2	5	....
J. M. Wheeler 4	5	....
Barren County—		
Carter Oil Co. Winniger 7	20	563
Dreenan Oil Co. Ziegler 3	4	364

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Company, Well and Location	Initial Production Bbls.	Depth
Houschins Leasehold Co. Ziegler 7..	17	553
R. A. Dale Preston 3	5	495
South Saint Paul O. & G. Co. Vincent 3	6	628
L. J. Emery, Jr., & Sons Kinslow 1	*	500
Ackers Oil Co. W. Smith 14.....	12	458
Allen County—		
Roberts & McNeil Fisher 11.....	2	450
J. R. English A. Hobdy 9	8	386
Florence Oil Co. Latherwell 7.....	1	265
F. G. Esslinger Willoughby 4.....	8	365
West Penn Syndicate Peersen 10....	7	347
S. R. S. Oil Co. B. S. Ayers 6.....	*	512
Owensboro Field—		
Nutty & Pyle Ed Barker 2	9	752
Pennsylvania-Indiana Oil Co. F. V. Miller 8	7	750
Abe Howe 45 acres 5	12	749
Kentucky Oil Co. J. W. Burdette 1.	*	800
Russell County—		
J. E. Carnahan Oil Co. B. F. Leach 2	50	....
B. F. Leach 3	75	....
Creelsboro Oil Co. John Coffee 1...	50	....
Warren County—		
F. W. Evans Miller 1.....	*	....
Feilder & Co. McGinnis 2.....	7	1000
C. E. Karns & Co. Lawrence 1.....	5	456
Elliott County—		
D. Lewis T. J. Evans 1	5	....
R. Bentley 1	2	....
Indian-Texas Pet. Co. 1.....	*	....
Wayne County—		
Bridgam Oil Co. M. F. Smith 1....	4	....
Dillon & Wetzel Denny Heirs 3....	*	....
J. A. Barrett & Co. M. Hatfield 7 ..	1	....
Lee County—		
Hupp, Duff & Co. Dave Mays Heirs 13	25	....
George Porter 1	100	....
Floyd County—		
Pennegrade Oil Co. R. Moore 2.....	*	....
C. A. Sears Wm. Connelly 1.....	¶5	....
Monroe County—		
Young Oil Co. Coffee 3	200	530

SOUTHEASTERN OHIO

Washington County—		
Densmore Estate T. F. Dunbar 1....	*	....
Thos. Orndorff N. N. & M. S. Morris 1	¶½	....

CENTRAL OHIO

Richland County—		
Greenwich Gas & Oil Co. Dr. H. R. Noble 7	¶1	....
Dr. H. R. Noble 8	¶2	....
Brickner Bros. L. Noble 2 .....¶1½		1300
Erones & Hart H. S. Maring 6....	¶1	....
Hocking County—		
Logan Gas Co. Ed Lockard 1.....	¶½	....
Summitt Gas Co. E. W. Kennard 5..	18	....
Ohio Fuel Supply Co. Edward & Holler 1	20	....
Licking County—		
Ohio Glenn Oil Co. Bowers 1.....	110	....
Perry County—		
Carter Oil Co. J. H. Rarick 6.....	5	....

NORTHWESTERN OHIO

Wood County—		
Lantz, Gregg & Schutte H. Schutte 5	25	1297
Paragon Ref. Co. E. Stockwell 21...	10	1393
Trail Oil Co. J. Cahill 4.....	6	1469
Mercer County—		
Home Bakery Co. G. F. Hellworth 1	10	1299
Strong Bros. F. Bollenbacher 3.....	2	....
H. C. Croft J. Ables 1.....	10	....
Auglaize County—		
Waller & Co. Mrs. Dingleduce 3....	30	1308
J. R. Kellet J. R. Julian 1.....	18	1300
Hardin County—		
Whipple, Ulrich & Co. A. Zimmerman 1	40	....
Schmidt & Holmes Scott Land Co. 1	*	1460
Darke County—		
D. P. Early, trustee, C. Miller 7....	30	1296
Mindarke Oil & Gas Co. G. L. Toman 2	2	1297
Allen County—		
C. A. Peavy & Co. E. Lewis 10....	10	1348
Ohio Oil Co. I. East 7.....	3	1330
Paulding County—		
Harmon & Miller C. Graham 2.....	50	1460
Hancock County—		
Ohio Oil Co. R. A. Cooper 12.....	3	1500
Seneca County—		
Sun Company J. C. Laiss 1.....	*	2401

INDIANA FIELD

Spencer County—		
Dana D. Flanagan Dell Frakas 1...	2	779

ILLINOIS

Clark County—		
Titus Oil Co. Mary McClelland 1...	25	1417
Ohio Oil Co. S. N. Bronson 13.....	25	1414
Crawford County—		
W. C. McBride, Inc., C. A. Dickinson 1	6	960
Wabash County—		
Arkansas Fuel Oil Co. G. Smith 1..	*	....
Lawrence County—		
Snowden & McSweeney C. B. O'Donnell 41	6	1350

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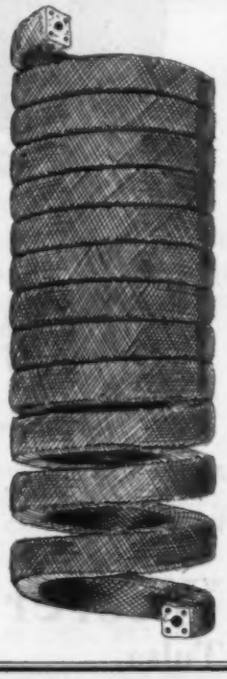
For Drilling Engines, Pumps, Swivels, Etc.

Sizes: From ¼ to 1¼ in., running in 1/16 inch.



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Maintaining Gas Pressure Requires Wildcat Drilling in Eastern Fields

Pittsburgh, Pa., Aug. 18.—While conditions of the petroleum industry is not the best, the drill keeps moving along throughout the various producing regions east of the Mississippi River, and that in the face of a downward trend of the market for crude as well as for gasoline. Only part time is being worked in the refining plants and some of them have shut down entirely, to await the betterment of the industry.

The real oil operators are doing very little in the way of wildcatting but the gas companies are doing their share and quite often open up new oil fields. The gas companies must keep busy with the drill to secure a strictly new supply for the coming winter months. One of the main sources of the gas supply comes from Wetzel County, as well as Roane County, and a new 12-inch gas line is being built from Wetzel to Roane County. Very good results are met with by the gas companies in Lincoln, Putnam, and Cabell Counties. A new test for gas is being made in Mingo County, also in West Virginia and over westward toward the Kentucky line. Logan County is also getting its portion of the new testing out of territory. Right up against the West Virginia-Kentucky state line some good gas wells are being found on the Kentucky side and there is no reason why wells of the same value should not be found close up on the West Virginia side.

New York and Pennsylvania fields both report a good weeks activity, while work was slack in West Virginia and Southeastern Ohio, which constitute what is known as the Pennsylvania fields. The old Bradford field of Pennsylvania is holding its own, especially in what is known as the flood district. Venango County, same state, has considerable work, as has Butler County, while in the Allegany County field is the bulk of the New York's late completions.

A remarkable find was made during the week by the Eastern Oil Company, which brought in a wildcat on the C. L. Engle farm, in the Otter district of Braxton County, which produced 150 barrels at a depth of 2203 feet, and approximately two miles from the nearest production on the Whitesell farm, and opens up what looks like the best bet in West Virginia.

Central Ohio has another good strike to its credit. This new well is the Ohio Glenn Oil Company's on the Bowers farm, in section 11, Bowling Green township, Licking County, and out of Newark. The well got its oil in the deep Clinton lime formation and showed production of 110 barrels. In Perry township, Hocking County, in the same formation the Ohio Fuel Supply Company's wildcat on the Stewart Hollen farm, produced 20 barrels, opening quite a lot of available acreage for future developments.

Southeastern Ohio failed to show anythink worth while.

The Northwestern Ohio field has a few important wells, the best of which was found in the new field near Payne, in Paulding County, drilled by Harmom and Miller on the Graham farm, in Benton township, with 50 barrels flush from the Trenton sand. The most important well for the field for the past several days was a 40-barrel producer found by Ulrich, Whipple and Company in a wildcat on the Art Zimmerman farm, in McDonald township, Hardin County, and about 40 miles south of the old Findlay field. The oil was struck at approximately 1400 feet, also in the Trenton. The Sun Company drilled a deep well in the Eden township, part of Seneca County, to a total depth of 2401 feet. Top of the Trenton was reached at 1776 feet and drilled 665 feet in the Trenton and no pay sand found. A wildcat well drilled by J. R. Kelley, on the Julian farm, in Moulton township, Auglaize County, showed but 18 barrels, but is an important addition to the field.

The only well for Indiana for the week was drilled by D. D. Flannagan on the Belle Frakas land, in Jackson township, Spencer County, north of Owensboro, Ky., and in the extreme southern part of Indiana.

Illinois failed to show anything better than a 25 barrel well, which was found in the Stray sand field, recently opened in Martinsville township, Clark County.

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Try it out. Hang a load on it and see if you can make it jump out. Make it strut its stuff, and in the end if you're not satisfied, take it back where you got it and tell the world it's no good.

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GOOD PEOPLE TO DO BUSINESS WITH

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Kentucky Drilling Still Showing Effects of Low Price for Crude Oil

Louisville, Ky., August 18.—The oil fields of Kentucky showed no improvement in development work since last reviewed and the shut down program is still being carried out. No wells other than are necessary will be drilled until the market price is materially advanced.

Barren County still remains the busiest county in the western half and during the week showed seven completions, six of which made producers. The best was the Carter Oil Company's No. 7 Wininger, in the Emery-Moore Pool, which came in making 20 barrels at 563 feet. The Houchins Leasehold Company got a 17 barrel pumper on the Ziegler farm, in the same pool, at 553 feet. On the Dreenan tract, Ziegler Brothers finished No. 3 for four barrels at 364 feet. No. 4 is showing for a good producer in a stray sand at about 203 feet. This is the first well to free oil in the above the shale sands in Barren County and if it proves a commercial producer it will create a lot of interest.

A few miles south of Granger, the county seat of Barren, the Ackers Oil Company made a 12 barrel pumper out of its No. 14 W. Smith at 456 feet. Other completions show one dry hole and two small pumpers.

The Owensboro district is showing up real well and it is expected that oil runs for July will show an increase over June when the peak was reached in that area. According to reports there are 92 wells connected in the gathering lines of the Indian Pipe Line Company which average just about four barrels each.

In the Pellyville Pool and its extensions, three producers are shown, the best of which is Nutty and Pyle's No. 2 Ed Barker which started off at nine barrels from the Barlow sand, at 752 feet. The Pa-Indiana Oil Company finished a seven barrel well in its No. 8 F. V. Miller, and a 12 barrel starter in its No. 5 Abe Howe. One disappointment was registered during the week. It was the Kentucky Oil Company's No. 1 J. W. Burdette.

Big Well in Monroe

The L. Coffee No. 3 of the Young Oil Company was the feature well of the whole week in the state. It is located in the Kettle Creek district of Monroe County near the Cumberland County, Ky., and Clay County, Tenn., line. The well on tapping the sand at 456 feet started off at the rate of a barrel a minute and flowed at that rate until a 200 barrel tank was filled then stopped flowing. It was then drilled a few feet deeper where it is now making the estimated amount of 200 barrels per day naturally.

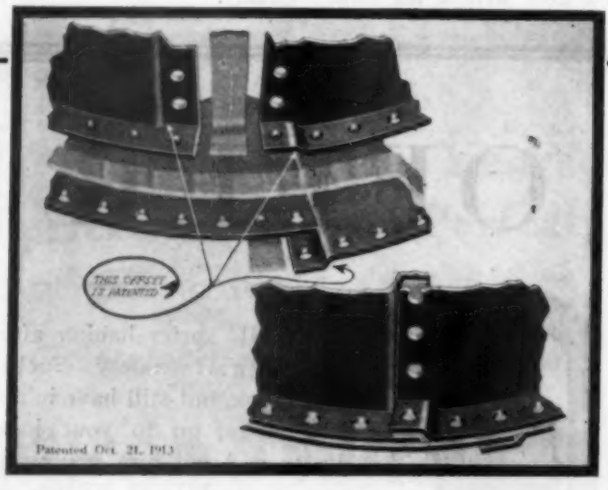
Allen County Wells

The wonder shallow field of Allen County registered six completions, five of which made producers increasing the production 27 barrels per day. Wells in Allen County are completed at depths ranging from 60 to 500 feet and come in all the way from 3 to 1500 barrels flush. The oil is found in two different pays below the black shale and are called the first and second sands below the shale. The best pay is the lower formation about 50 feet below the shale. In Warren County these same sands are encountered at from 1000 to 1200 feet but do not show the large flush production that the sands do in Allen County, however, the production holds flush longer than the Allen County producers.

Important Wildcat Starting

J. N. Thompson, of Indianapolis, Ind., is starting one of the most important wildcat tests that has been drilled during the past several years in the state. It is the No. 1 D. J. Williams farm, in Madison County, and is the first test ever drilled in that county. The well is located on a fine structure a short ways form the Kentucky River, at Boonesboro Beach, one of the best summer resorts in the state. scouts of the major companies are watching this important test with eager eyes, as it will open an entirely new field if it proves to be a commercial producer.

Two wells, each making 30 barrels, features the completions for the past week in the eastern end of Kentucky. They were drilled in on the Salyer heirs' farm by Oliver Jenkins, in the Johnson-Magoffin field.



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MALONEY PATENTED BOLTED COPPER-STEEL

MALONEY

Permits Granted and Locations for New Wells
(California—Kansas—Oklahoma—Texas—Arkansas—Louisiana)

CALIFORNIA

Torrance Field—C. C. M. O. Co.'s Del Amo 100, 9-4-14. Petroleum Securities Co.'s Kleinmeyer B-1, 19-4-13. Standard Oil Co.'s Potter Comm. 1, 16-4-14; Marble Fee 21, 15-4-14. C. C. M. O. Co.'s Del Amo 22, 16-4-14.

Rosecrans Field—Union Oil Co.'s Gordon 1, 19-3-13.

Huntington Beach Field — Southern Calif. Drilling Co.'s 1, 2-6-11. Pan American Pet. Co.'s Johnson A-2, 11-6-11. The Petroleum Co.'s Wilson 3, 2-6-11.

Dominguez Field — Shell Co.'s Reyes 14, 33-3-13.

South Mountain Field—Oak Ridge Oil Co.'s Willard 16, 18-3-20.

Summerland Field—Frank E. Johnston and Frank D. Adams' 1, 200 ft E from the Submarine Oil Co.'s line.

Temblor Field—Jared How's 1, 29-29-21.

Midway Field—Honolulu Consolidated Oil Co.'s 57, 6-32-24; 67, 6-32-24. Surprise Oil Co.'s 5, 36-32-23.

Sunset Field—Standard Oil Co.'s M. J. M. & M. 55, 36-12-24.

San Luis Obispo County Field—R. B. Blodget's 1, 2-32-22.

Kern County Field — Union Oil Co.'s Rio Bravo 1, 4-29-25.

Kern River Field—L. M. Howland's 9, 2-29-28. Kern River Oil Fields Co. Ltd.'s 1, 14-29-28.

Sacramento County Field—W. Z. Pay's 1, 53-2-7.

KANSAS

Cowley County—Buffalo Trust Co.'s No. 7 Kukuk, southwest corner of the northeast of 24-32-4. Gypsy Oil Co., No. 1 Poor, southwest corner of 3-33-3. Waite Phillips & Marland, No. 1 Alexander, southeast corner of 4-33-3; No. 5 Wortham, northwest corner of the southwest of the northeast of 20-33-3; No. 6 Wortham, northeast corner of the southeast of the northwest of 20-33-3; No. 1 Johnson, southeast corner of the northwest of 29-33-3.

Elk County—Sinclair O. & G. Co.'s No. 2 Porter, northeast corner of the southeast of the northeast of the southeast of 11-29-8. C. E. Roth et al, No. 7 Porter, southeast corner of the southwest of the southeast of the southwest of 12-29-8. Ohio Fuel Oil Co., No. 2 Smith, northwest of the northeast of 28-29-9.

Greenwood County — Rogers & Mission Oil Co., No. 4 Wiggins, northwest corner of the southwest of the northwest of 23-24-9; No. 5 Wiggins, southwest corner of the northwest of the northwest of 33-24-9. Leonard Pet. Co., No. 2 Halverton, northwest corner of the southwest of the southwest of 23-24-9.

LOUISIANA

Calcasieu Parish—The Texas Co.'s Gray 26, 33-10s-12w, 1270 ft N and 1270 ft W of SE Cor. of Sec.

Claiborne Parish — Gulf Ref. Co.'s M. P. Palmer et al 1, 35-23n-6w, 475 ft S and 317 ft E of NW Cor. of Sec.

Union Parish—W. T. James' Talton 1, 14-20n-3e, 660 ft N and 660 ft W of SE Cor. of NW¼.

Webster Parish—Woodley Pet. Co.'s W. D. Merritt 1, 14-21n-10w, 200 ft S and 200 ft E of NW Cor. SW¼ of SW¼.

ARKANSAS

Ouachita County—Gilliland Oil Co.'s McRae 5, 30-15-16, 200 ft S and E of NWc SW¼ SW¼. Sutton et al's McElroy 4, 28-15-16, 150 ft S and 400 ft E of NWc NW¼ NW¼ NE¼.

Union County — Dyer Bors.' Stout Lumber Co. 2, 31-15-16, 200 ft N and W of SEc SW¼ SE¼. Holliday Trust's Goff 5, 6-16-16, 200 ft N and W of SEc Lot 3, NW¼. Imperial Oil Co.'s Morgan 2, 29-17-14, center of west line of SE¼ NW¼. Magnolia Pet. Co.'s Campbell 2, 13-16-17, 200 ft S and W of NEc NW¼ NE¼. Ohio Oil Co.'s Ballard 3, 14-16-15, 330 ft S and W of NEc SW¼ NW¼. United Central Oil Corp.'s Burton 2, 25-16-16, center of north line of S½ SE¼ NW¼.

OKLAHOMA

Carter County—Humble Oil & Ref. Co.'s No. 1, C NW NE SE 28-1s-3w; Lavan No. 1, C NW SW SW 27-1s-3w. Magnolia Pet. Co.'s No. 4 Williams, C NE SW NE 23-2s-3w. Lloyd Noble & Galt No. 1, Carson, C SW SE NE 28-1s-3w. Wirt Franklin No. 2, Lahman, C SE SE NE 22-2-3w; No. 3, C NW SE SW 5-3s-2w. Merrick et al No. 1 Williams, C NE SE SW 5-3s-2w. Amerada Pet. Corp., No. 1 Kirby, SEc NW 20-5s-1e.

Choctaw County—Choctaw Pet. Co., No. 1 Wilson, C SW SW SW 15-6-19e.

Cotton County—Steve Lensen No. 1-A, Berner, C NW NE NW 14-2s-11w.

Creek County—Prairie Oil & Gas Co., No. 1 Coser, SWc NE 7-14-7. Riverland Co., No. 8, NWc SW SE SE 8-16-12. Twin State Oil Co., No. 1 Coser, NWc SE 7-14-7. Skelly Oil Co., No. 1, NWc 4-14-10. LeBrough et al No. 1, Lot 4, block 39, townsite of Mounds.

Garfield County—Imo Oil & Gas Co., No. 1 McLean, NWc NE NW SW 31-22-3w. Crews Heirs Oil & Gas Co., No. 22, Crews Estate, SWc SE SW SE 19-22-3w.

Garvin County—Texas Pacific Coal & Oil Co., No. 1-A, Riddle, NW¼ 35-1n-3w (corner location not learned.)

Grady County—Briscoe Hall No. 1 Smith, C NE SE SW 26-5n-8w. Carter Oil Co., No. 4 McCaughtry, SWc NW NE 26-5n-8w.

Jefferson County—Magnolia Petroleum Co., No. 1 Spring, C NE NW NE 25-6s-6w. Hopwood & Anderson No. 1 Seay, NWc SW NE 31-6s-5w.

Kay County—Jarvis & McComas No. 1, Branine, SEc SW SE 15-29-1w. Unable Oil Co., No. 1, Johnson, NEc 18-27-1w. Blackwell Oil & Gas Co., No. 40, Corrigan, SEc NE 34-25-1w. Amerada Pet. Corp., No. 35, Woods, C NW SW NE 34-25-1w. George Bole No. 6, C NW SE NW 4-27-5.

Noble County—Comar Oil Co., No. 9-A, Carmichael, NEc NW NW 3-24-1w.

Okfuskee County—McMahon No. 1, SWc NE 36-12-10.

Okmulgee County—Morton Co., No. 1, NWc SW NE 7-12-12.

Osage County—Texas Co., No. 9, NEc NW NE NE 29-25-8.

Seminole County—Cosden Oil & Gas Co., No. 4, Tiger Harjo, C NE SW NE 15-10-8; same company No. 1, J. Harjo, C NW NW SE 15-10-8; No. 2, C SW NW SE 15-10-8. Roxana Pet. Co., No. 1-A, King, C SW NW SW 14-10-8. Roxana No. 7, Brown, C SW NW SW 10-10-8. Prairie Oil & Gas Co., No. 1, Little, C SW SE SE 10-10-8. McMan No. 2, Little, C SE SW SE 10-10-8; No. 3, same lease, C SE SW SE 10-10-8; No. 4, same lease, C NW SW SE 10-10-8. Burke-Greis Oil Co., No. 4, Brown, C NE SE SW 10-10-8. Pure Oil Co., No. 7, Bruner, C SE NE SE 9-10-8. Gypsy Oil Co., No. 1, Hale C SE SE NE 9-10-8. Shaffer Oil & Refining Co., No. 3, Perryman, SEc SW NW 32-8-8. Magnolia Petroleum Co., No. 2 Tiger, NWc SW 32-8-8. Magnolia No. 4, Parker, NWc SE NW 32-8-8. Sykes-Boggs No. 5 Willis, C SE SE NE 31-8-8. Ramsey et al No. 1-A, Salinda, C NE NW SE 31-8-8. Ramsey No. 1, Amos, C NE SE SE 31-8-8. Prairie Oil & Gas Co., No. 1, Amos, C NE NE SE 31-8-8. Magnolia Petroleum Co., No. 2, Rosanna, C SE SE SE 25-8-7.

Tulsa County—Shaw et al No. 1, NWc NE NW 18-19-14. Owens et al No. 1, SEc SW NE 13-19-13.

TEXAS

Archer County—Sunshine State Oil & Refg. Co.'s J. M. Key 2, Club Ranch sur, blk 58, 150 ft to W and 175 ft to S line. Kentucky Oil Corp.'s F. Hix 2, Mary O'Neil sur, W. F. Parrish B-1, H&TC Ry sur. sec 26, 150 ft to N and E lines. Hobbs, Chenault & Burleson's N. D. Goldsmith 14, BBB&C Ry sur, 439 ft S No. 1. Stanley McGregor's Roberson 4, A. Lewellyn sur, blk 6, 300 ft E No. 3. Ray-Featherston Oil Co. Inc.'s A. P. Nichols 2, Amer Trib sur, blk 30, 300 ft W No. 1. Magnolia Pet. Co.'s Lewellyn Hrs. 4, J. Lewellyn sur, 300 ft S No. 3. Mary J. Barnes' L. F. Wilson 3, Amer Trib sur, sec 26, 300 ft W No. 1. Mrs. H. B. Wallace's Kemp & Kempner 14, S. P. Ry. No. 2 sur, 300 ft SE No. 7. Jeffers & Newby's A. Hausler 1, A Hausler sur, 150 ft to W and 450 ft to S line.

Bexar County—Gas Ridge Dev. Co.'s Voges 8, P. Gallagher No. 209 sur, 2000 ft to N and 160 ft to W line.

Callahan County—Sam McClure et al's S. Hunt 1, TE&L No. 2289 sur, 170 ft to W and 160 ft to S line. Duhl, Chappell & Hadcock's S. F. Ingram, sec 17, no map. Goodloe & Harris' S. M. Davis 1, Bayland Asy sur, sec 4, 150 ft to S and W lines. Parkersburg Drilling Co.'s L. H. Qualls 17, TE&L Co. No. 2279 sur, 550 ft to N and 1050 ft to W line. L. C. Lucas et al's Mrs. C. Grisham 7, TE&L No. 2300 sur, 450 ft to S and W lines. Sprawls, Harwell & Cook's H. Wagley 6, D&D Asy sur, sec 2, West of No. 7; 7, NE corner.

Clay County—G. T. Morris' J. Stevenson 1, Specht & McCutcheon sur, blk 56, NE cor.

Eastland County—Henry Riley's C. M. Mc-

Weekly Comparison of New Wells

Following is a condensed table giving a comparison of permits or locations made for new wells in Kansas, Oklahoma, Arkansas, Louisiana, Texas and California.

Number of New Wells for Week Ending

State—	May 17	May 24	May 31	June 7	June 14	June 21	June 28	July 5	July 11	July 18	July 25	Aug. 1	Aug. 8	Aug. 15
Kansas	21	61	27	18	...	...	17	9	8	12	13	...	9	12
Oklahoma	17	80	124	68	61	81	78	70	59	111	75	62	60	53
Arkansas	57	35	39	36	22	33	24	...	18	34	43	...	13	8
Louisiana	12	16	13	13	11	14	13	4	8	7	9	10	3	4
Texas	142	192	162	117	104	145	132	134	65	90	131	103	102	75
California	...	...	...	...	...	...	...	27	22	24	27	22	24	22
Totals	302	384	365	215	198	273	264	244	180	278	298	197	211	174

Clelland 1, S. P. Rys. sur, sec. 466, 300 ft to S and W lines. States Oil Corp.'s Mrs. A. Quiett 1, H&TC Ry sur, sec 8, no map.

Del Rio County—Rio Bravo Oil Co.'s Moore Est. 1, I&GN Ry sur, sec 22, East Central.

Falls County—Derden & Stephens' Dr. Aycock 1, Jas Garner sur, blk 2, 750 ft to E and 150 ft to S line.

Grimes County—Cuthrell Oil Co.'s R. D. Parker, R. D. Parker sur, 1685 ft to N and 190 ft to W line.

Hardin County—Lake View Oil Co.'s Hardin Co. Oil Co. 40, S. Jackson sur, 200 ft SE No. 38. Paraffine Oil Co.'s Knight 38, SW cor. East Batson Oil Co.'s Conzleman 8, F. H. Green sur, 46 ft to N and 99 ft to W line. W. B. Flynn's Colorado Batson Synd 5 Paraffine Oil Co.'s 1, D. W. Donono sur, 188 ft to N and 125 ft to E line. Fountain Protective Co.'s P. Cotton 12, C. F. S. Jorditt sur, 80 ft to N and 150 ft to W line.

Harris County—Texas Exploration Co.'s Jno. Warren 20, Everett sur, 1600 ft to W and 2106 ft to S line. Gulf Prod. Co.'s Stateland Oil Co. 15, Wm. Scott sur, 2445 ft to N and 688 ft to W line.

Johnson County—Wilfly & Simpson's F. Hix 2, Mary O'Neil sur, 400 ft S No. 1.

Liberty County—Republic Prod. Co.'s Dolbear 89, J. Devore sur, 1379 ft to N and 1212.5 ft to E line; 90, 1660 ft to E and 250 ft to S line. Gulf Prod. Co.'s E. M. Scarbrough 7, I&GN Ry sur No. 28, South Central.

Live Oak County—The Texas Co.'s C. H. Reagan 1, G. C. Coker sur, 300 ft to N and E lines.

Milam County—Brady Bros.' Baldrige Bros. 1, Chambers sur, 525 ft to N and 700 ft to E lines. Derden & Stephens' H. A. Fuchs 2, Jas. Garner sur, 150 ft to N and E lines.

McLennan County—Stiles, Groover, Croft & Lynch's J. E. Helton 1, W. S. Fridge sur, 150 ft to N and 400 ft to W line.

McMullen County—Southern Nat'l Gas Co.'s H. L. Lark 11, M. O'Boyle sur, 2370 ft W No. 8.

Medina County—Rydal Oil Co.'s R. Schmidt 3, P. E. Darst sur, No. 15, 800 ft NE No. 2, H. J. Rand's A. E. Soathoff 1, No. 847 sur, 1250 ft to W and 150 ft to N line.

Maverick County—O'Keefe & Collett's Phelps Cox & Wilson 3, I&GN Ry sur, sec 218, 2300 ft to E and 2340 ft to S line.

Navarro County—G. I. Moore's J. J. Bledsoe 1, H&TC Ry sur, blk 7, 750 ft to S and 1350 ft to E line. Atlantic Oil Prod. Co.'s B. L. Swink 4, Jno. Choate sur, 150 ft to E and 450 ft to S line. Sun Oil Co.'s W. P. Brown 4, Jno. White sur, no map.

Reagan County—Arkansas Fuel Oil Corp.'s State Univ. 1, Univ. Lands sur, sec 9, 1600 ft to N and 1100 ft to W line.

Shackelford County—Tidal Oil Co.'s J. H. Elliott 1, Insane Asy sur, sec 20, 155 ft to S and 150 ft to W line. The Mayemack Co.'s S. S. Diller 1, Insane Asy sur, sec 42, 150 ft to N and E lines. Dave Duncan's M. J. Leach 1, Insane Asy sur, sec 31, 150 ft to N and E lines. J. S. Dennis' Fee 11, Insane Asy sur, sec 15, 300 ft N No. 5. H. E. Palmer et al's J. D. Fite 2, Univ. Lands sur, sec 37, 750 ft to N and 450 ft to W line.

Stephens County—Humble Oil & Refg. Co.'s P. C. O'Loughlin 1, Bayland Asy. sur, sec 65, 660 ft to N and W lines. Walker, Samuel & Stewart's S. Cobb 3, T&P Ry sur, blk 5, 600 ft E No. 2; 4, 300 ft to N and E lines.

Titus County—Humble Oil & Refg. Co.'s Brown A-4, Jno. Sharp No. 18 sur, 625 ft to N and 50 ft to W line.

Terrell County—R. E. Dunn's Co-operative Investment Fee Land 1, T. C. Ry sur, sec 45, 330 ft to N and 264 ft to E line.

Uvalde County—Humble Oil & Refg. Co.'s Kincaid 1, G. W. Capron No. 378 sur, 5000 ft to W and 2500 ft to S line.

Wichita County—McClure & Son's W. D. McClure 1, GC&SF Ry sur, sec 5, 450 ft to N and 150 ft to E line. Allen & Miller's Evans-Greenwood 1, TE&L Co. No. 818 sur, 150 ft to N and E lines. Apple-Brandebury Oil Co.'s Mrs. G. Jennings B-2, HT&B Ry sur, sec 12, no map. Exley & Covert's O. H. Chapman 8, Cowherd Bros. sur, blk 24, 350 ft SE No. 7. Grisham & Park's C. O. Walling 1, T. Mitchell sur, blk 63, East Central. T. F. Hunter's R. K. Callen 1, C. T. Ry sur, SW Cor. Empire Gas & Fuel Co.'s Pierce Oil Corp.'s 4, HT&B Ry sur, sec 9, 870 ft to N and 150 ft to W line. Maer-Staniforth's S. B. Burnett 7, G. R. Meade sur, sec 6, 300 ft No. 3. S. H. Walton Jr.'s Mitchell 13, C. T. Ry sur, North Central.

Wilson County—Rosalie Oil Co.'s H. F. Denning 1, C. W. Parrott No. 158 sur, 800 ft to N and 600 ft to E line.

Wilbarger County — Bridwell, Heydrick & Palmer's S. A. Dill et al 1, H&TC Ry sur, sec 8, 175 ft to W and 150 ft to S line.

Wharton County—Jas. F. Weed's State 1, 166 ft to N and E lines.

Young County—C. E. Litchfield's Baldwin 1, No. 294 sur, 150 ft to N and E lines. F. C. Clark et al's Donnell Est. TE&L No. 2371 sur, 300 ft to N and E lines. Monroe Prod. Co.'s M. G. Cheney 1, W. M. Goode sur, 1070 ft to E and 250 ft to S line.

R. H. Shattuck, production and drilling superintendent for the Atlantic Oil Producing Company with headquarters at Dallas, is vacationing in sunny California and will not return until the first of the month.

W. E. Hubbard, geologist for the Humble Oil and Refining Company in the North Texas district, was operated on for appendicitis last week, and is now on the road to recovery in a Wichita Falls hospital.

F. W. DeWolf, chief geologist for the Boyd Oil Company with headquarters at Dallas, departed last week with his family for a vacation trip to Denver, Colorado.

Cuts Production Costs

—It pumps, pulls rods and tubing, bails and handles a light string of tools—does all these jobs easily and smoothly.

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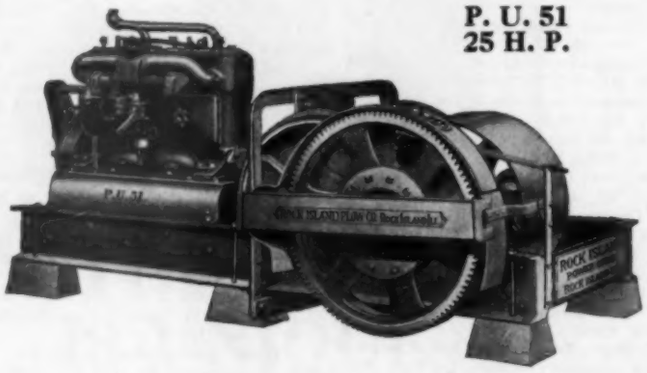
25 H. P.



Rock Island Pumping Unit

A powerful, 25 h. p. four cylinder engine which operates with either natural gas or gasoline.

Equipped with the famous Rock Island friction drive which gives complete control of the load from the well platform—seven speeds forward and seven reverse without any sudden jerking or jolting. You can start slowly and speed up just as smoothly as with an electric motor, increasing the speed as the load decreases.

Write us for free book describing the Rock Island Pumping Unit. Then get in touch with Mr. Camp at Tulsa, Oklahoma. He will tell you where you can conveniently see one of these engines and give you other information of value to you.

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Imperial Oil of Canada Begins Work On New Test in Foothills of Albert

Calgary, Alta., Aug. 18.—After numerous delays due to unfavorable weather Imperial Oil, Ltd., has spudded in its new test in the Willow Creek field, west of Nanton. The location is at Rice Creek, about five miles south of the previous Willow Creek test, which last season finished as a dry hole. The Willow Creek area is a section of the Rocky Mountain foothill belt in Western Alberta; the structure and formations being very similar to those in the Okotoks field, farther north, where both oil and gas production have been developed on a limited scale. Besides the Willow Creek duster, a test of the Alberta Associated Oils, Ltd., started at the time of the Calgary boom was deepened by Imperial Oil, Ltd., but had to be discontinued owing to casing troubles, before a conclusive depth was reached. The Alberta Associated well is reported to have encountered some oil indications, and the area generally is regarded by geologists as a fair prospect.

In addition to its Rice Creek test Imperial Oil, Ltd., is rigging up a new test in the Sweetgrass area, close to the border, and about three miles north of the Rogers-Imperial well. This new test is expected to spud in some time this month. The Rogers-Imperial is drilling below the gas sand, but is making only about three feet a day owing to the hardness of the formation. The test will be carried to the limestone unless oil is encountered earlier. In the Medicine Hat field, the Medicine Hat council has declined a new proposition from the P. Chester Thompson syndicate for the drilling of a deep test for oil and gas within the city limits.

Interest now largely centers on the Irma-Wainwright field. Maple Leaf Oil and Gas Company No. 1, section 24-45-8w4, looks like a good gasser, but it will not be drilled farther into the sand until casing has been run and cemented. Mud is being pumped into the hole to keep back the gas, until the casing arrives.

British Petroleum's No. 3, section 29-45-6w4 looks like a duster, though drilling is being continued to the lower formations. No definite information regarding this test has been given out for some time. No. 4 is also drilling, but has not yet reached a conclusive depth.

Western Consolidated Oil Company, section 20-45-6w4, is reported making good headway, after some preliminary delays, and the Wainwright Oil Producers Syndicate, section 36-44-7w4, is also drilling. These five tests represent the sum total of the Irma-Wainwright drilling operations at present; though the British-Wainwright Oil and Development Company is moving a heavy drilling outfit up from Calgary for a new test to be drilled a short distance south of British Petroleum's No. 3.

In the Pigeon Lake district the Globe Drilling Company (Mutual) test on section 14-47-27w4 is making slow headway around 1250 to 1300 feet.

Operations in the Athabaska tar sand area are being undertaken by the Anglo-Canadian Collieries and Refineries, Ltd., which is planning to erect an extraction plant at Fort McMurray and a refinery at Edmonton. Some preliminary work has already been done on the company's holdings.

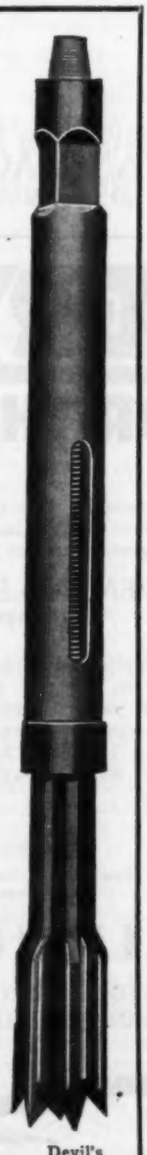
Prairie Oils, Ltd., has resumed work on its test at High Prairie, Northern Alberta, after being shut down four weeks waiting for casing. This test is down about 1500 feet with some small gas showings.

The new shallow oil production in Elgin County, near Iona, is reported to have about four shallow wells, production being encountered in the Onondaga limsetone at about 365 feet. One well pumped 35 barrels and then water came in; two others are stated to be small pumpers, while a fourth well drilled by the St. Thomas Oil and Gas Company got a somewhat better production. It is stated that one carload of oil has just been shipped, and further drilling will be carried on.

The Colonel Avonez Syndicate of Tulsa, Okla., is endeavoring to develop a shallow oil field on Pelee Island, in Essex County, drilling having been started on the west front of the island.

In the gas fields the Dominion Natural Gas Company is drilling a wildcat test southeast of Maybee's Corners and southwest of Courtland, in Norfolk County; this test is down about 600 feet.

The Kind of Fishing Job that Turns Contractors' Hair Gray



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Frank Knew How to Proceed, Though, and as a Result Saved $3000

Three and a half miles north of Breckenridge the Williams Drilling Co. was drilling Akers No. 4 for the Livingston Oil Corporation, when the 5, 6 and 8-inch casing collapsed.

Three thousand feet of 4-inch drill pipe—on which the Williams company put up a forfeit of $3000—was rushed to the job for fishing purposes.

First a 6-inch spear was run on this drill pipe and the pipe parted 150 feet down. Then a Combination Socket with mandrel was run to fish out the rotary pipe.

But the bell of the socket split and broke off—leaving slips, springs, etc., inside the bell on top of the pipe.

It was some job—the kind that turns hair gray.

But Frank Williams knew about the Devil's Fishing Tools and the astonishing things they've done. He got a 5 3/16-inch Pitchfork from Breckenridge, tied the spears together so that they passed into the combination socket bell, and in two runs fished out the spring and slips.

Then Frank hired a shooter to put a small shot at the bottom of the rotary pipe, shot the spear off, and fished the pipe out through the bell of the Combination Socket. He salvaged the 8-inch and skidded the rig.

The point of the story is that the Devil's Fishing Tools saved Frank that $3000 forfeit money—just as they will save money, time and grief for you, too, provided you're lucky enough to have them on hand when your next fishing job develops. Full and courteous attention paid to inquiries. Immediate shipments.

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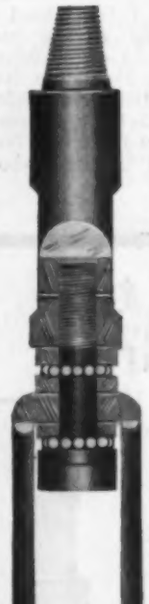

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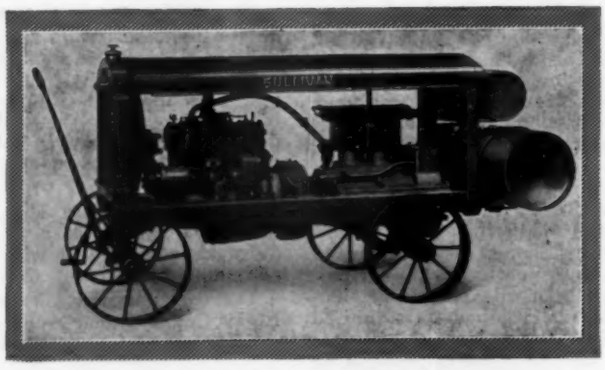

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WILDCATS FROM ALL SECTIONS

Leasing Active All Directions From Big Lake Field; Northeast Favored

Fort Worth, Texas, August 18.—Since all the close in acreage surrounding present production in the Big Lake oil field in Reagan County section of West Texas is held jointly by the Texon Oil and Land Company and the Big Lake Oil Company, with the former concern holding an undivided interest in 48 square miles of leases, the new companies and operators seeking a foothold in this section of the state are forced to take rank wildcat leases, and acreage prices are climbing as the demand increases. The trend of leasing activity during the past few weeks has extended in all directions from the oil producing area, but most of the lease buyers are inclined to favor acreage located in a general northeast direction from the field, probably due to the recent completion of the best well in the field in this direction from the original pumping wells.

Numerous wildcat drilling blocks are being taken by major companies and independent concerns in Reagan and adjoining counties, and the vast number of permits already granted by the state land office to oil companies and individuals to explore for oil on the University of Texas lands will assure a heavy wildcat drilling compaign in this section of the state during the next six months, as the time limit set for drilling on the early batch of permits will begin expiring shortly. Although these permits were awarded by the state for 10 cents per acre to companies and individuals, the present owners are asking many times over the original price, and those that are in the hands of speculators are being turned at fancy profits to concerns that are willing to drill and cure the leases.

Officials of the Big Lake Oil Company have announced that they will not dispose of any part of their holdings, which consist of 16 sections with nine completed wells, but the Texon Company is entertaining a deal with a major company that will guarantee a pipeline outlet for the field. Three major companies operating a pipe line in Texas are showing considerable interest in Texon holdings, but no trade can be expected from either of these companies until something definite is known regarding the production value of these holdings.

The Texon Company has 32 sections of land under lease in a solid block located east of the Big Lake field, and has one well in process of completion. This well is located in the northwest corner of section one, block eight, and is flowing twice daily about 60 barrels of oil from the top of the sandy lime pay at 3024 feet, while the same company has a second test nearing completion in section 22, block 9. This latter test is reported to have encountered the lime at 2801 feet, thereby indicating that it is logging the formations favorable for production, and is shut down for casing at 2820 feet. Both tests will be drilled in when the company's loading rack and storage is completed.

Oil production in the Big Lake field maintained an average of about 5250 barrels daily last week, with the Big Lake Oil Company's University 11 continuing to flow better than 3000 barrels daily, although more than two weeks have elapsed since it was drilled in. The casing seat in this big well is reported to be leaking a small quantity of water, as is the case with the same company's University 10. Since the Big Lake Oil Company's present production is in excess of tank car shipments to El Paso and Fort Worth refineries and crude is backing up in its limited storage facilities, it is expected that the flow of the three large flowing wells will be pinched somewhat, unless a faster rate of decline in production takes place.

The second of the trio of tests to be drilled by the Mid-Kansas Oil and Gas Company on a large block of acreage owned by the Transcontinental Oil Company in Reagan and Crockett Counties for a half interest has encountered water, and is shut down at 3505 feet. This test is located on Harris ranch, section 20, block "HH", and southwest of the Big Lake field in Crockett County, while the first test was drilled some weeks ago on the McIntosh ranch, Reagan County, into water at 3433 feet. It is expected that the third location will be announced shortly.

Boyd's Third Bazette Structure Test Plugging Off Salt Water to go Deeper

Corsicana, Texas, August 18.—The third test drilled by the Boyd Oil Company on the East Bazette structure in northeast Navarro County in search of oil production in the Woodbine sand developed salt water last week from 3214 to 3224 feet after logging traces of oil in sand at 3206 feet, and is now shut down in shale at 3227 feet after cementing a string of 5 3/16-inch casing to shut off the water sand. This test is generally conceded to be the most important wildcat effort now underway in the East Central Texas fault zone, as it is located on a line 2000 feet south of a completed gasser and 1000 feet north of a test that showed considerable oil in the Woodbine at 3242½-46½ feet. It is known as C. R. McCowan 2, and is located in the Morris Webb survey, about 15 miles east by north of the Corsicana-Powell field discovery well.

Information furnished by correlating the logs of the three tests drilled on the East Bazette structure by the Boyd Oil Company indicates that a gas sand may be encountered in the McCowan 2 at about 3228½ feet, and the water has been cased off to drill into this expected pay, while deeper drilling will be continued if nothing develops. This third test was drilled to the top of the Woodbine at 3155 feet, and standard tools were moved in after cementing the first string of casing at 3163 feet. In the event this third test fails to make a commercial well, it is reported that the Boyd Oil Company may deepen its gasser, which is doing five million cubic feet of dry gas daily from Woodbine sand at 3190 feet, while it is an almost certainty that further efforts will be made to locate the oil on this structure, as the Boyd Oil Company has expended more than one-quarter of a million dollars to date in purchasing its acreage and drilling on this particular structure. The next location will undoubtedly be northeast or southwest of the present trio of holes.

More than one-half dozen unsuccessful attempts have been made by the crew on the Boyd Oil Company's McCowan 1 to shut off water after drilling to 3413½ feet, and the last plug was set 3248 feet. An effort is being made to test out the oil sand encountered at 3242½-46½ feet, with hopes of making a small pumper from this pay.

Although within 26 feet of its contracted depth, The Texas Company's wildcat test on the M. F. Enix farm, J. Halle survey, Hopkins County, is setting a string of 6 5/8-inch casing at 3474 feet. This test has not reported any showings of oil to date, and will probably be carried deeper than the contracted depth, while in the meantime it is to drill a second wildcat test in this county.

McLaughlin-Lyles and Atlantic Oil Producing Company's wildcat test on the J. T. Dowell farm, O. S. Downing survey, added another deep failure to Rains County last week when it was ordered plugged and abandoned at 3475 feet in shale formation. This test is located a short distance east of a 2570-foot junked hole completed early in July on the J. W. McMann survey, and is about one mile west of the Texas Pacific Coal and Oil Company's wildcat test that showed oil and gas in the Woodbine at 3315-65 feet.

East Central Texas Wildcats

COMPLETION

Company, Well and Location	Initial Production Bbls.	Depth
Rains County—		
McLaughlin-Lyles & Atlantic Oil Prod. Co. J. T. Dowell 1.....	*	3475

DRILLING REPORT

ANDERSON COUNTY—Roeser Petroleum Co.'s J. D. Via 1, (Isaac Simpson sur) trying to set cas 4411 ft.

BOWIE COUNTY—Boyd Oil Co.'s C. H. Thompson 1, (38.73 acres lease) Jacob Barkman survey, dk. Geo. B. McCullough & Roell's W. R. Williams 1, (L. M. Rice sur) spd and sd. Mission Oil Co.'s W. H. Nelson 1, (N. D. Headright sur) sidetracking bit 1170 ft.

DELTA COUNTY—J. C. McNeil et al's M. C. Patrick 1, (D. Hodges sur) dr 2780 ft.

FRANKLIN COUNTY—J. C. McNeil et al's J. C. Harper 1, (J. S. Clift sur) coring 2835 ft.

FREESTONE COUNTY—Hall & Hodges et al's F. E. Gaddy 1, (H. Howard sur) top Austin chalk 2607 ft, set 6¾ cas 3310 ft, and dr 3315 ft.

HOPKINS COUNTY—The Texas Co.'s M. F. Enix 1, (J. Halle sur) cemented 6¾ cas 3474 ft. Gulf Production Co.'s W. J. Davis 1, (Jas. Clark sur) lcn. C. A. Kelsey et al's Addie Brooks 1, (D. Dowdle sur) dr 1200 ft. Bar-Tex Drilling Co.'s C. H. McClure 1, (D. Waggoner sur) dk.

HUNT COUNTY—Gulf Production Co.'s J. C. George 1, (E. Tidwell sur) lcn. Sam Tallal & C. A. Kelsey's J. W. Barnett 1, (Alex Smith sur) dk.

KAUFMAN COUNTY—Judge Germany et al's W. S. Kirby 1, (S. Edens sur) sd 2896 ft. George Jackson et al's Watkins 1, sd 2790 ft.

LAMAR COUNTY—Interstate Oil Co.'s Ben Hayes 1, (Larkin-Rattan sur) dk.

LIMESTONE COUNTY—L. E. Trout et al's W. R. Roach 1, (D. Ford sur) dr hard lime 3465 ft.

NAVARRO COUNTY—Boyd Oil Co.'s C. R. McCowan 1, testing cas after plugging back from 3413½ feet to 3248 ft; McCowan 2, cementing 5 3/16 cas in shale 3227 ft after drilling water sand 3217-24 ft. Alex Patrick & A. G. Ilseng's W. L. Roberts 1, (Jos. Mayor sur) sd 1740 ft.

RAINS COUNTY—Ferguson & Short Bros.' W. D. Peeples 1, (F. A. Tibbles sur) spd and sd.

RED RIVER COUNTY—Johnson Pet. Co.'s Lady Alice 1, sd for cas 2740 ft.

TITUS COUNTY—Magnolia Petroleum Co.'s George Antone 1, (M. V. Delgado sur) standard rig.

VAN ZANDT COUNTY—Frank Buttram et al (was Porter & Holmes) J. T. Dunbar 1, (Van Sickle sur) dr broken shale 2705 ft.

WOOD COUNTY—Golden Oil Co.'s J. D. Adrian 1, (Hallmark sur) sd 1500 ft.

Central West Texas Wildcats

COMPLETIONS

Company, Well and Location	Initial Production Bbls.	Depth
Brown County—		
Mahlstedt-Mook Oil Co. J. K. Cafford 1	¶10	1315
Moore et al Chambers 1.....	15	1215
Crockett County—		
Crockett Drilling Synd. J. M. Shannon 1	*	4270

DRILLING REPORT

BROWN COUNTY—M. T. Anderson-Moore et al's Wheeler 1, dr 1815 ft. Chas. S. Avery et al's Cox 3, dr 2265 ft. Curry & Bonway Bros.' Chambers 1, dr 600 ft. Gump et al's Moore 1, making 35 bbls, 1229-36 ft. Gillman et al's Newton 5, rig. Honea et al's E. DeBusk 2, sd 1900 ft. Leonard et al's Prather 2, sd 2370 ft. Mahlstedt Mook Oil Co.'s Gaines 2, fsh tools 845 ft. C. O. Moore et al's A. B. Teston 1, setting cas 1020 ft. Maher Bros.' Bohara 1, sd 2260 ft. McMurray et al's Newton 2, machine. Moore & Wilson's Westerman 1, dr 900 ft. Omaha Southern Oil Co.'s G. B. Gaines 2, sd 1840 ft. Pope & Wilson's Baxter 1, dr 1240 ft.

CALLAHAN COUNTY—Tom Bryant et al's R. B. Forbes 1, dr 2925 ft. Byron-Union Oil Co.'s Hennessey 1, sd 4045 ft. Chas. Dutton et al's Carter 1, sd 890 ft; Harwell 1, sd 800 ft; Cathey 5, timbers; Cathey 6 and 7, rigs. Dudley Oil & Gas Co.'s Hugh Moore 1, sd 1841 ft. Hickey et al's E. L. Findley 2-A, rig. Junior Oil Co.'s A. L. Huntington 1, sd 745 ft. Kellog Drilling Co.'s Snyder 1, spd and sd. Prewitt et al's Bailey 1, setting cas 1130 ft; Betcher 1, dr 1425 ft; Crane 1, rig; White 1, dr 400 ft; Windham 1, spd. Pope-Wilson & Pennant Oil & Gas Co.'s Webb-Albin 6, dr 2000 ft. Shackelford et al's Chas. Allen 1, sd 1675 ft. The Texas Co.'s Isenhour 1, dr 900 ft. Texas Pacific Coal & Oil Co.'s N. J. Biggerstaff 1, dr 2100 ft.

SOMERVILLE COUNTY—Glen Rose Oil & Gas Co. et al's J. R. Buzan 1, sd for cas 410 ft.

BORDEN COUNTY—Reeves-Parkhurst et al's A. J. Long 1, sd for cas 1535 ft.

BREWSTER COUNTY—Arco Dev. Co.'s H. L. Kokernot 1, sd 3775 ft. Brewster Oil Co.'s W. H. Kokernot 1, fsh cas 2535 ft. Marathon Oil Co.'s J. S. Cage 1, sd 2355 ft. Portland Oil & Gas Co.'s State 1, sd 3050 ft. Nine Points Oil Co.'s Peralto & Finnell 1, sd 1570 ft.

COKE COUNTY—Ace Oil Co.'s W. C. Locke 1, spd and sd. Sward & Laller's J. R. Mims 1, lcn. Mexia-Equitable Oil Co.'s W. J. H. Hodges 1, sd 2505 ft.

CONCHO COUNTY—Dome Porduction Co.'s Mrs. C. M. Hartgrove 1, shot prematurely, co

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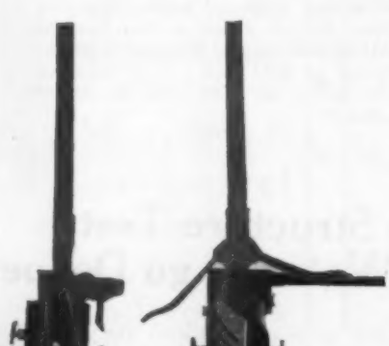

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CRANE COUNTY—Texas Development Co.'s Jack Cowden 1, dr 1235 ft.

CROCKETT COUNTY — Crockett Drilling Co.'s Shannon 2, lcn; Robt. Massey 1, fsh tools 1640 ft. Mid-Kansas & Transcontinental's Harris 1, sd with hole full water 3505 ft. World Co.'s L. P. Powell 1, fsh bit 845 ft. W. E. Ball et al's J. S. Todd 1, lcn.

CULBERSON COUNTY — David Flood et al's McAlpine & Grisham 2, lcn. J. D. Wesner et al's Mack Sayles 1, sd 3105 ft.

DAWSON COUNTY — Lamesa Oil Co.'s John Burns 1, sd 2160 ft.

ECTOR COUNTY—Farmers Oil Co.'s Andy Newham 2, sd 1400 ft.

FISHER COUNTY—Pyron Oil Co.'s J. S. McCall 1, sd 3125 ft.

GARZA COUNTY—B. V. Blackwell et al's J. M. Boren 1, sd 1405 ft. Union Pet. Corp.'s C. C. Connell 1, dr 1625 ft.

GLASSCOCK COUNTY — Cushing Ranch Drilling Assn's W. H. Sparkman 1, sd 1950 ft. A. C. Varner et al's C. I. Brunson 1, dr 3240 ft. General Oil Co.'s L. S. McDowell 3, co to deepen, td 675 ft.

HUDSPETH COUNTY — Boole Oil Assn's Gardner et al 1, sd 1540 ft. Wm. Loftus et al's Minnie Veal 1, sd 1300 ft. Hueco Basin Oil Co.'s University 1, sd 2560 ft.

HOWARD COUNTY—Big Springs Oil Co.'s Mable O. Quinn 1, sd 3640 ft.

IRION COUNTY—Orient Oil Co.'s J. D. Sugg 1, lcn.

JONES COUNTY—Anson Oil & Dev. Co.'s C. B. Brown 1, sd 1855 ft. C-H Oil & Dev. Co.'s J. A. Cullom 1, sd 3500 ft.

LOVING COUNTY—J. J. Wheat et al's N. E. Chapman 1, sd for water 400 ft. Ramsey Prod. Co.'s Russell 1, sd 4485 ft; Russell 2, sd 810 ft.

MITCHELL COUNTY—The California Co.'s E. Morrison (lease 5) 10, dr 2825 ft; Morrison 11, dr 2920 ft; W. H. Adrams (T&P) 6, dr 2615 ft. Sloan Oil Co.'s H. C. Miller 2, sd 1265 ft. Chal Daniel et al's W. D. Kynard 1, rig. M. E. Eddleman et al's A. C. Gist 1, sd 1980 ft. Morrison-Rowe Lease Synd.'s W. D. Kynard 1, sd for water 535 ft. Colorado-Texas Petroleum Co.'s W. L. Foster 3, lcn. Horace Cook et al's W. L. Foster 1, lcn. I. B. Humphreys et al's P. C. Coleman 1, dr 740 ft. J. T. Harris et al's W. C. Brown 1, showing oil 363-70 ft. Tidal Oil Co.'s J. J. Handley 1, sd for shot with oil in hole from 2968 to 3052 ft.

PECOS COUNTY—Arkansas Fuel Oil Co.'s Blackstone & Slaughter 1, materials. C. E. Menzie et al's Sherbino 1, lcn. Trans-Pecos Oil Co.'s W. W. Turney 1, sd 2905 ft; Bennett 1, sd 1245 ft; Johnson-Troy 1, sd 2965 ft; H. L. Thomas 1, sd 1610 ft. Southern States Lease & Prod. Co.'s J. M. Odem 1, sd 1205 ft.

PRESIDIO COUNTY—Claude Byler et al's Toole Estate 1, sd 865 ft.

REAGAN COUNTY—Big Lake Oil Co.'s University 12, (Sec. 36, Blk. 1) bldg std rig. Texon Oil & Land Co.'s University 1, (Sec. 1, Blk. 8) flowing by heads twice daily for 50 bbls oil, sd for storage 3022-24 ft; University 1, (Sec. 22, Blk. 9) top lime 2801 ft, (s. l. m.) sd for cas 2820 ft. Wm. Dunning & Humble Oil & Ref. Co.'s Sawyer Cattle Co. 1, dr hard lime 2980 ft. Mid-Kansas & Transcontinental's McIntosh 1, sd with hole full water 3433 ft. University Oil Co. (was Sparks & Owen's) University 1, (Sec. 17, Blk. 10) rigging up. Crockett Drilling Synd.'s University 1, (Sec. 9, Blk. 9) rigged up. Arkansas Fuel Oil Co.'s University 1, (Sec. 9, Blk 6) rigging up. C. J. Wrightsman et al's Ingham 1, (Sec. 39, Blk. "C", L. & S. V. Ry sur) spd and sd. Orient Petroleum Co.'s J. Belcher 1, lcn.

REEVES COUNTY — Dixieland Oil Co.'s Oates 2, sd 4505 ft. W. S. Troy et al's H. G. Hersheusen 1, sd 415 ft. Bell Reeves Oil Co.'s Findley et al 1, sd 1540 ft. El Paso Saragosa Oil Co.'s Geo. Wirt 1, sd 540 ft. Parker-Hancock Oil Co.'s Johnson 1, sd 1930 ft. Willoughby Pet. Co.'s W. D. Cowan 1, sd 610 ft. Rodenbaugh & O'Connell's W. D. Casey 1, sd 845 ft. Pecos Petroleum Co.'s Johnson 1, sd 1930 ft. Texas Drilling Co.'s Pecos Valley 1, sd 1105 ft. Dome Drilling Synd's Ira J. Bell et al 1, lcn.

SCURRY COUNTY—Camp Springs Oil & Refining Co.'s W. Y. Jones 1, sd 600 ft; J. O. Quinn 1, showing gas 3570 ft; L. E. Howell 1, lcn. Hermleigh Oil & Gas Co.'s I. W. Burris 1, sd 2965 ft. Stanton Oil & Gas Co.'s J. W. Riley 1, sd 3500 ft.

STERLING COUNTY — Chicago-Texas Oil & Gas Co.'s D. C. Durham 1, sd 1427 ft; Durham 2, dr 860 ft. Co-operative Lease & Development Co.'s Douthitt 1, sd 1775 ft. Fidelity Oil Co.'s G. R. Hull 1, sd for cas 1640 ft.

STONEWALL COUNTY—Elder Nance et al's Ward et al 1, lcn.

TAYLOR COUNTY—Sanger Oil & Ref. Co.'s McClure 1, lcn; Tom Sawyer 1, sd 2700 ft; S. P. Hollingshead 1, rig.

TERRELL COUNTY—Southwest Texas Oil & Gas Co.'s S. W. T. No. 1, sd 3515 ft.

TOM GREENE COUNTY—Ranger Investment & Dev. Co.'s Harris 1, fsh tools 3370 ft.

UPTON COUNTY—W. P. Morris et al's H. M. Halff 1, (Sec. 50, C. C. Phillips sur) moving in materials.

VAL VERDE COUNTY—East Del Rio Oil Co.'s Russell 1, sd 1800 ft. Independent Operators' W. F. & W. E. Whitehead 1, sd 2200 ft.

WARD COUNTY—Arthur Pitts Oil Co.'s Soda Lake 1, sd 2205 ft; River 1, sd 4675 ft. Cook & O'Brien's G. W. O'Brien 1, sd 1175 ft. Trans-Pecos Oil Co.'s Longnecker 1, sd 1765 ft.

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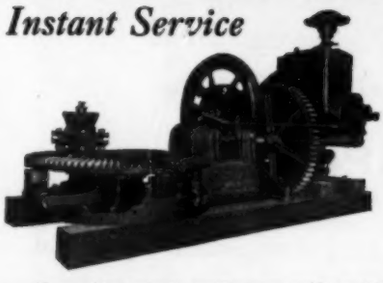


More Power—Less Vibration

They Are Correct in Design

Husky Enough to Do the Job Right

The reliable eccentric motion does away with jerky lines.
Built in three sizes:
No. 4—Belt Drive, weight 6500 lbs. For deep wells.
No. 2—12 H. P. engine, weight 4600 lbs.
No. 1—6 or 8 H. P. engine, weight 3200 lbs.

Turntable gear is easily removable and having a broad face, coarse teeth and large diameter will stand up to the heaviest loads.
SHACKLE LINES SET LOW TO THE GROUND (13 in.) ELIMINATE EXCESSIVE STRAIN. QUICKLY INSTALLED.

Oil Field Supply Dept.
KANSAS CITY HAY PRESS COMPANY
Kansas City, Mo.

BAKER
Dump Bailer
No Unnecessary Parts

Simplicity in construction and operation increases efficiency of the Baker Dump Bailer.

No CHAINS to get tangled when running.
No SPRINGS to break.
No LATCHES to get out of order.

Made in TOP and BOTTOM only, and can be extended to any desired length by use of additional joints of casing with collars.

Bottom has SLIDING SLEEVE which is forced up on the body when it strikes the bottom of well, thus tripping the valve.

Sizes and Prices on request

Baker Casing Shoe Company
Box 264 C, Huntington Park Station, Los Angeles, California

Coastal Wildcats

ANGELINA COUNTY—Paggi Bros.' Henderson-Hunt 1, about 12 miles east of Lufkin, sd at 660 ft.

AUSTIN COUNTY—W. W. Johnson and H. R. Carroll's San Felipe De Austin Townsite Otulot 16, sd at 2108 ft, waiting on water.

BRAZORIA COUNTY—Associated Oil Co.'s Perry 1, 2 miles east of Clute, sd at 4351 ft while moving in heavy rig. Sinclair Oil & Gas Co.'s Perry 1, at Stratton Ridge, dr at 2280 ft. Sinclair Gulf-Cave 1, at Damon Mound, dr at 3287 ft. Evans et al's Dolly 1, northeast corner of the Sam Dolly 20-acre tract at Stratton Ridge, erecting dk. Quick Dev. Synd.'s Boggs 1, at Stratton Ridge, sd at 4350 ft. D. F. Bryan Production Co.'s Chester Oil Co. Bryan 1, at Bryan Heights, standing at 2911 ft.

CHAMBERS COUNTY—The Kirby Petroleum Co. and Mills Bennett's Amanda McKinney 1, southeast side of Barbers Hill, dr at 3816 ft.

FORT BEND COUNTY — Pathfinder Oil Co.'s Davis Trustee 1, 7 miles northeast of Damon Mound, sd at 1000 ft; 2, sd at 600 ft; 4, lcn. Rycade Oil Corp.'s B. Wisdom 1, 7 miles southeast of Damon Mound, dr in cavity at 672 ft.

GONZALES COUNTY — Hindman & Mitchell's Morgan 1, 11 miles southwest of Gonzales, dr about 1700 ft. Bryan & James' Billings 1, southeast corner of the Peter Winn league, near Smiley, sd at 985 ft.

GRIMES COUNTY—L. F. McCausland et al's Dodd 1, 3 miles west of Iola, sd at 1635 ft. Cuthrell's Cuthrell 3 at Carlos, dr around 1500 ft.

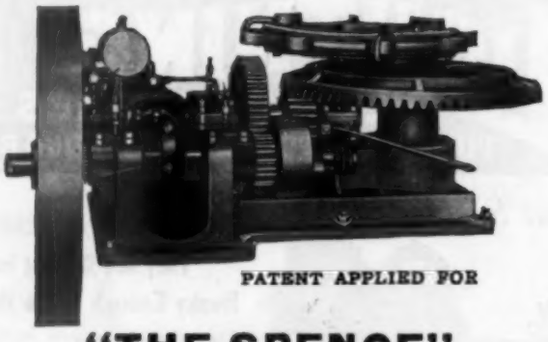
HARRIS COUNTY—Texas Exploration Co.'s Warren 17, at Hockley, dr at 2961 ft; Warren 20, dr at 300 ft. The Dome Dev. & Pet. Co.'s Chachere 1, at Piney Point, sd below 700 ft; Schneider 1, sd around 500 ft while installing new pumps. Giesecke & Davis' C. E. Malone 1, about ½ mile east of Little York dr about 1100 ft. Atlantic Oil Producing Co.'s Ross 1, ½ mile southwest of Pierce Junction, dr at 3800 ft. Trinity Mining & Copper Co.'s Mueschke 1, Wm. Koihn sur, at West Field, sd at 2200 ft.

JACKSON COUNTY—Vanderbilt Pet. Co.'s Seliner 1, near Vanderbilt, sd at 2200 ft, waiting on fuel. Jackson County Oil Synd.'s Grushell 3, about 7 miles northwest of Edna, dr around 450 ft.

LIBERTY COUNTY—The Texas Co.'s Ott 1, 6 miles west of Batson, lcn. Quick Dev. Synd.'s Peeler 3, at Fairchild Hill, sd at 3003 ft.

MATAGORDA COUNTY—Rycade Oil Corporation's Sisk 1, at Markham, fsh td 2550 ft; Myers 2, at Markham, set cement at 3367 ft.

SAN JACINTO COUNTY—B. S. Jones et al's Bledsoe 1, 1¼ miles south of Shepard, sd.



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This power has been pronounced by some of our largest producers as one of the best pumping units on the market for wells in territory of medium depth.

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REGISTERED U. S. PATENT OFFICE

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BULLETIN 302 and prices on request.

KEYSTONE DRILLER CO.

BEAVER FALLS, PA.

Branch Office and Plant

Joplin, Mo.

Doheny Dismissal Plea Based on Radio Incident

Washington, D. C., Aug. 19.—For the first time, probably, in the history of the country a plea for dismissal of an indictment has been field in court on the ground that sentiments broadcast by radio stations might have resulted in influencing the jury which would try the case.

This plea was resorted to by Frank J. Hogan in a brief asking dismissal by the Supreme Court of the District of Columbia of the indictments against Edward L. Doheny and Edward L. Doheny, Jr., in which they are charged with Harry F. Sinclair and former Secretary of the Interior Albert J. Fall with conspiracy in connection with the leasing of naval oil reserves. It is declared in the plea that Senator Walsh, who in his capacity of senator, was vested with peculiar authority over the investigation and who would naturally be recognized as such by members of the grand jury, announced in the press his purpose to discuss "the oil scandal" over the radio, and did so discuss it after having been warned by Mr. Hogan that the grand jury was in session, and it is also declared that the character of his remarks were such as must inevitably have influenced members of the jury.

The broadcast speech leading to the filing of the plea was delivered some time ago from a Washington broadcasting station.

North Texas Wildcats

COMPLETION

Company, Well, Location	Initial Production Bbls.	Depth
Wilbarger County—		
Herron, Johnson et al's R. L. Castleberry 1		220[illegible]

DRILLING REPORT

BAYLOR COUNTY — Crittenden et al's Hawkins 1, sd for water 1615 ft. Dallas Oil Co.'s Shower Bros. 1, dr 940 ft. Hapgood & Anderson's J. H. Turbeville 1, fsh dr stem, at 2020 ft. Independent Oil Co.'s Robertson School land 1, dr 1785 ft. C. B. Jetter et al's

F. Gatzki 1, sd 660 ft. Magnolia Petroleum Co.'s W. B. Mills 1, fsh 1820 ft. D. H. Moore et al's H. H. Fancer 1, dr 1500 ft. Richardson Bros. et al's Wallace 1, sd 255 ft. Sheldon et al's Martin 1, sd 110 ft.

CLAY COUNTY—Atlantic City Prod. Co.'s Scaling 1, fsh 2720 ft. Blake & Diessel's Hansard 1, dr 150 ft. Bowen & Ross' Stine 1, dr 1635 ft. Callender & Cumley's Stine 1, bailing good show, td 1784 ft. Crude Oil Synd.'s Kinder 1, sd 1200 ft. Gulf Production Co.'s C. M. Worsham 4, (rotary) dr 1530 ft. Hart & McKenna's Stine 1, dr 1710 ft. Knox Finley Dev. Co.'s J. V. Howell 1, sd for water 1135 ft. Lone Star Gas Co.'s Panhandle Fee 6, dr 1320 ft; Fee 10, dr 900 ft; Fee 11, dr 790 ft; Martin 20, dr 1025 ft. M. J. Sullivan et al's Scott 1, dr out plug, td 1200 ft. Shelton Oil Co.'s H. Boddy 1, dr 900 ft. Texland Production Co.'s Johnson-Ashland 1, dr 1660 ft.

COLLIN COUNTY— W. B. Kyle et al's Walton 1, jkd, 1780 ft; Walton 1-A, dk.

COOKE COUNTY—Big Indian Oil Co.'s W. B. Davis 1, running cas with packer 3445 ft. Red River Drilling Co.'s Whaley Jones 1, sd 1255 ft.

DENTON COUNTY — Arbuckle Asphalt & Pet. Co.'s Kate Fonteberry 1, dr 490 ft. Hillcrest Oil & Dev. Co.'s J. H. Rayzor 1, sd 1350 ft.

FANNIN COUNTY—J. W. Atkins et al's Henry Whitting 1, jkd, 1005 ft; Whitting 1-A, dk.

FOARD COUNTY — Landreth Production Co.'s F. Halsell 1, dr 2500 ft.

GARZA COUNTY—B. V. Blackwell et al's J. M. Boren 1, set cas 1699 ft. Union Petroleum Corp.'s C. C. Connell 1, sd 1600 ft.

GRAYSON COUNTY—Zee Tex Oil & Dev. Co.'s G. W. Cannon 2, sd 3000 ft; Griffin 1, sd 2325 ft.

HASKELL COUNTY—S. S. Couri et al's Couch 1, sd 1490 ft. Weirt & York's Colbert 1, sd 2330 ft.

KNOX COUNTY—Brazos Bend Oil Co.'s J. E. Clark 1, sd 2020 ft. Evans et al's Ella Lawson 1, dr 720 ft.

MONTAGUE COUNTY — Boyd Oil Co.'s Mrs. F. E. Loy 1, sd, est 15,000,000 cu ft gas, 586 ft; Mrs. M. H. Salmon 1, sd, good for 75 bbls heavy oil, td 902 ft. Guaranty Fund Oil Co.'s A. Jordan 1, dd, co 2550 ft. Gulf Production Co.'s M. E. Benton 1, (rotary) dr 2140 ft. Mascho Oil Co.'s J. L. Howard 1, dr 3650 ft. Texhoma Oil & Ref. Co.'s E. J. Bouldin 1, pulling 6⅝-inch casing, td 1685 ft. The Texas Co.'s I. A. Gist 2-A, cemented 15½-inch casing, td 647 ft. Otic C. Wood et al's Summerour 1, dr 1625 ft.

THROCKMORTON COUNTY — Adams, Brown et al's School lands 1, sd 1435 ft. Hamilton et al's J. T. Odell 1, dk. Hougland et al's Mrs. A. McKnight 1, ur cas 505 ft. Humble Oil & Ref. Co.'s J. L. Stubblefield 1, ur cas, td 2100 ft. King et al's A. P. Broyles 1, dr 500 ft. Bruce Larkin et al's R. E. Conger 1, co after shot with 7 quarts, est 15 bbls oil, td 1430 ft. Shamrock Oil Co.'s Mrs. A. McKnight 1, spd and sd. Tucker et al's Reynolds Cattle Co. 1, sd 675 ft. W. A. Whatley et al's Parrott 1, sd 565 ft; C. P. Todd 1, sd with show gas 821 ft. Young et al's Reynolds Cattle Co. 1, sd 275 ft.

WILBARGER COUNTY—Barker & Hamilton's A. P. Morris 1, sd for water 305 ft. Bridwell & Heydrick's W. B. Dill 1, dr 230 ft. E. A. Castleberry et al's J. Bowers 1, fsh 525 ft. Dill Farm Oil Co.'s W. B. Dill 1, dr 1350 ft. Dumas & Ellis' W. H. Stephens 1, sd for repairs, td 1220 ft. Hart et al's Smith 1, dr 1000 ft. Murchison & Pigg's Green 1, dr 980 ft. Noble Oil Co.'s W. T. Waggoner 1, set cas 1745 ft. South Vernon Oil Co.'s C. W. Richardson 1, dr 1275 ft; Stephens 4, lcn. Wells & Guiberson's Wharton-Waggoner 1, sd for storage, est 200 bbls. from sand 1994-2001 ft.

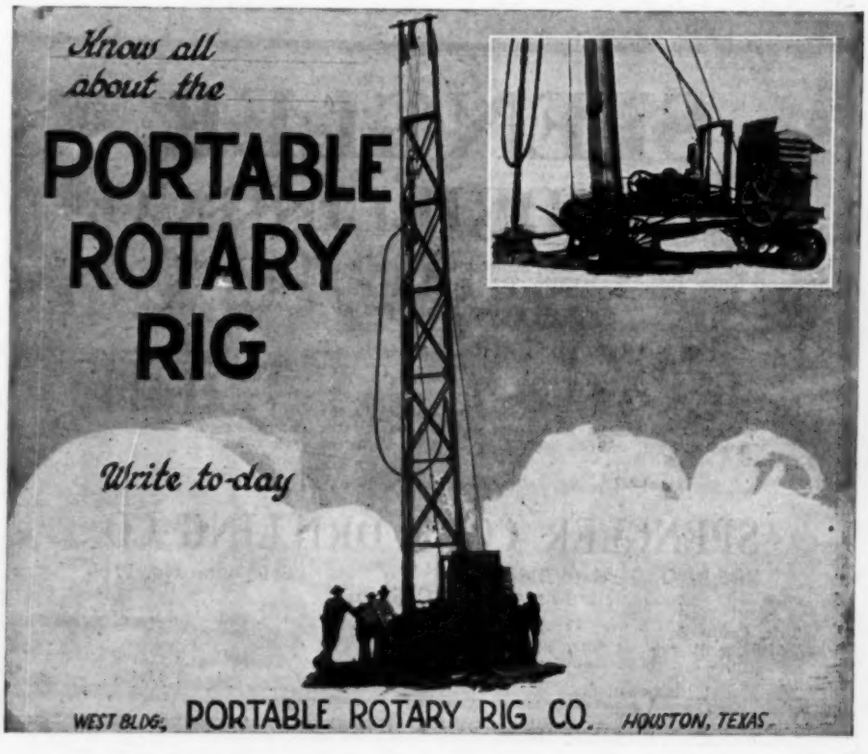
Texas Panhandle Wildcats

CARSON COUNTY—American Ref. Co.'s Burnett Estate 1, reset cas after swabbing at rate of 250 bbls. per day from sand 2985-2997 ft, td 3000 ft; Burnett Estate 2, (rotary) set cas 2560 ft. J. Crosbie et al's Burnett Estate 1, rotary dk. Culbertson Bros. et al's V. B. Armstrong 1, sd 2975 ft. Danciger Oil & Ref. Co.'s Burnett Estate 1, sd for water (rotary) 2075 ft. Gates Oil Co.'s Burnett Estate 1, dr 450 ft. C. F. (Jack) Greenwood et al's Burnett Estate 1, lcn. Olson Bros. et ai's Burnett nett Estate 4, dr 2400 ft; Burnett Estatae 1-A, dr 2300 ft. Hicks & Schoonmaker's Burnett Estate 1, lcn. John B. Hofmeier et al's Burnett Estate 1, lcn. Olon Bros. et al's Burnett Estate 1, dr 260 ft. Premier Oil Corp.'s Burnett Estate 1, cemented cas 1300 ft. W. W. Silk et al's Burnett Estate 3, dr by drill stem, td 2905 ft. Skelly Oil Co.'s Burnett Estate 1, dr 2510 ft. The Texas Co.'s Burnett Estate 4, dr 2420 ft; Mary C. Burnett 1, dr cement plug, td 2705 ft; Mary C. Burnett 2, fsh col cas 2725 ft. Henry Sweifel et al's Burnett Estate 1, lcn.

COTTLE COUNTY—T. J. Woodley et al's A. C. Dulaney 1, dr 2175 ft.

GRAY COUNTY—W. H. Holmes et al's J. S. Morse 1-A, lcn. The Texas Co.'s G. H. Saunders 1, pulling damaged cas with heavy flow gas, td 2775 ft. Wilcox Oil & Gas Co.'s P. A. Worley et al 1, sd for storage, est 300 bbls., td 2925 ft; J. H. Wilson 1, (rotary) dr 2415 ft.

HUTCHINSON COUNTY—R. G. Barnum et al's Johnson 1, rebldg dk, td 2820 ft. Gulf Production Co.'s E. Cockrell 1, ur cas 2055 ft; J. A. Whittenberg 1-D, dr 2800 ft. H. T. McGee et al's Smith-Capers 1, dr up junk 3188 ft. Panhandle Ref. Co.'s J. J. Perkins 1, lcn. Prairie Oil & Gas Co.'s Deahl-Weatherly 1, sd 2500 ft. Producers & Refiners Corp.'s Lee Bivens 2-B,



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FORT WORTH, TEXAS

Branch Stores: Wichita Falls, Graham, Breckenridge

rigging up. Tex-O Oil Co.'s Johnson 1, sd making 6,000,000 cu. ft. gas 1160-65 ft, td 1175 ft. Twin Six Oil Co.'s W. L. Kingland 1, dr 520 ft. Western Enterprise Oil & Gas Co.'s Smith & Capers 1, sd 1100 ft. J. W. Wilson et al's Whittenberg 1, running 8¼" cas to shut off 40,000,000 cu. ft. gas 2775 ft.

KING COUNTY—W. G. Trammell et al's Spikes 1, rig. J. O. Banks Oil Co.'s Bailey 1, sd 1600 ft.

MOORE COUNTY—Producers & Refiners Corp.'s R. B. Masterson 1, dr by cas 1980 ft.

POTTER COUNTY—Amarillo Oil Co.'s J. C. Warrick 1, dr 610 ft.

ROBERTS COUNTY—Phil Engle et al's Mrs. Ledrick & Sons 1, dr 1300 ft. Schenck & French's O'Laughlin & Sons 1, sd 300 ft.

WHEELER COUNTY—Cosden & Schenck's C. C. George 1, DD, dr 2700 ft. Mid-Continent Oil Synd.'s Ember 1, sd 500 ft. W. D. Sheddon et al's B. F. Westmoreland 1, sd 400 ft. Union Petroleum & Supply Co.'s O. T. Nicholson 1, sd 850 ft. J. O. Whittington et al's Williams & Laycock 1, sd making more than 100,000,000 cu. ft. gas 1815 to 2015 ft, td 2225 ft. E. S. Woodley et al's D. S. Bowers 1, showing gas 1885 ft, moving back boiler.

San Antonio District Wildcats

COMPLETIONS

Company, Well and Location	Initial Production Bbls.	Depth
Duval County—		
Union Sulphur Co.'s Tinney 1	*	....
McMullen County—		
Scharbauer-Hoad's Fisher 6	12	....
Everett & Adams' John Stitz 2	*	....
Zapata County—		
Hill-Pierce Oil Corp.'s Vela Ranch 1	*	....

DRILLING REPORT

BEXAR COUNTY—Aviators' Swearingen 1, dk. F. B. Slick's 1, dr.

DUVAL COUNTY—Mirando Oil Co.'s 14, set cas at 1525 ft. Humble Oil & Ref. Co.'s Walsh 3, dr below 3380 ft. Mesquite Oil Co.'s 2, set cas at 1586 ft. Iowa-Texas-Oklahoma Synd.'s Peters 1, dr 2205 ft. Cain & Smith's Schallert 2, lcn. Hill-Pierce Corp.'s Martinez 1, dr.

JIM HOGG COUNTY—Miami Oil Co.'s 1, dr. Diamond S Oil Co.'s Doering 1, dr. Moore et al's Tyson 1, bailing. Henne-Winch-Farris' Martinez 2, sd for water. McClannahan's Kinkler 1, dr below 1600 ft. Weber Oil Co.'s 4, dr. J. W. Pippin's 2, dr below 1410 ft.

LIVE OAK COUNTY—Grubstake Investment Assn.'s Nichols 3, set cas. McCoy's Rose Murrary 1, lcn.

McMULLEN COUNTY—San Balt Pet. Co.'s Stitz 8, dr. Southern Natural Gas Co.'s 9, dr; 10, cemented. Wilkerson-Lightfoot's Lark 2, set cas; 3, dr 600 ft; 4, dr. Coquet et al's Hicks 1, dr. A. W. Kollat's Joe Mahony 1, dr below 685 ft. Kepley-Carl-Anglin's Walsh 1, rigging up. Pioneer Consolidated Pet. Co.'s Martin 1, dr. Grubstake Investment Assn.'s J. T. Calliham 2, fsh; 3, cemented. Three Rivers Oil Co.'s Calliham 3, lcn. Chas. A. Snap's Shiner 1, dr below 4000 ft. George Pickett's Jacob 1, dr below 1100 ft. Watkins-Hill's Lark 1, dr below 1100 ft. H. S. Holliday's Stitz 1, cemented cas. Black Panther's Nichols 1, dk.

MEDINA COUNTY—California-Medina Oil Co.'s 1, sur 1012, dr 2300 ft. Zerr Oil Co.'s 1, sur 459, set cas. Western Lampassas and Bisbee Oil Co.'s 1, sur 175½, preparing to spud in. Hondo Drilling Co.'s 1, sur 764, tested at 1300 ft. Williams Oil Co.'s 1, sur 104, changed from standard to rotary. Jake Wolf et al's 1, sur 562, dr 1443 ft. O'Brien et al's 2, sur 14½, dr. Army Oil Co.'s 1, sur 16, dr 1000 ft. Ina Oil Co.'s 3, dr in, 5 dr. Brown et al's 1, sur 46, dr. A. Fox's 1, sur 286, dr. Witherspoon Oil Co.'s 1, sur 7 dr below 2400 ft. Henry Oil Co.'s 1, sur 16, dr. Koen et al's 1, sur 16, dr.

ZAPATA COUNTY—H. J. McMullen's Serapio Vela 1, 2, 3, lcns. Mirando Oil Co.'s 14, sur 307, dr. Killam Interest's 1, sur 307, set cas at 1664 ft. Hill et al's Haynes Ranch 1, dr.

Arkansas Wildcats

COMPLETIONS

Company, Well and Location	Initial Production Bbls	Depth
Columbia County—		
Ark-Oil Co.'s (Dudley) Fullenwilder 1, 12-17-22	*	2675
Houston Oil Co.'s Baker-Joiner 1, 2-18-22	*	3010
Nevada County—		
Miller-Burnham-Hawley Synd.'s Perry 1, 12-15-22	*	1149

DRILLING REPORT

CALHOUN COUNTY — Arkansas Fuel Oil Co.'s Childress 2, 1-15-15, dr 2740 ft.

CLEVELAND COUNTY — Markle Synd.'s Plummer 1, 22-9-10, dry 2666 ft.

COLUMBIA COUNTY—Brown et al's Robinson 1, 23-18-23, sd 3034 ft. Heath Trust's Williams 1, 1-19-21, sd 1200 ft. Johnson et al's Sailles 1, 18-17-22, sd 740 ft. Kemp et al's Emerson 1, 7-19-19, sd 630 ft. Miller et al's Watts 1, 20-16-18, abn 1890 ft. Phillips et al's Davis 1, 15-18-21, rig.

DALLAS COUNTY—Durr (Conway) et al's Riggs-Matlock 1, 33-8-15, fsh 2380 ft.

DREW COUNTY—Graves et al's Karnes 1, 20-14-6, dr 2380 ft. King & Wilson's Trotter 1, 12-13-6, sd 900 ft. Ratcliff et al's Spencer 1, 21-14-7, sd 1650 ft. Rhodes et al's Harris 1, 5-13-8, sd 2007 ft. Spooner et al's Meyer 1, 4-16-17, sd 50 ft.

GRANT COUNTY—Arnold & Hill's Meeks

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CORE DRILLING CO.

Owns the basic patent on core drills now used in the oil fields known as the Ameling Patent issued July 11, 1911, No. 997358.

Patents of recent issue are merely what is known as "improvement patents" and are infringements on our basic patent.

Claim 1 of our basic patent No. 997358 reads, as follows:

"1. A rotatory core drill comprising an outer barrel having an annular cutting bit on the end thereof and an inner core barrel having an annular bit on the end thereof, the cutting end of said inner bit being extended ahead of the cutting end of said outer bit and said outer and inner barrels being fixed against endwise movement independently of each other."

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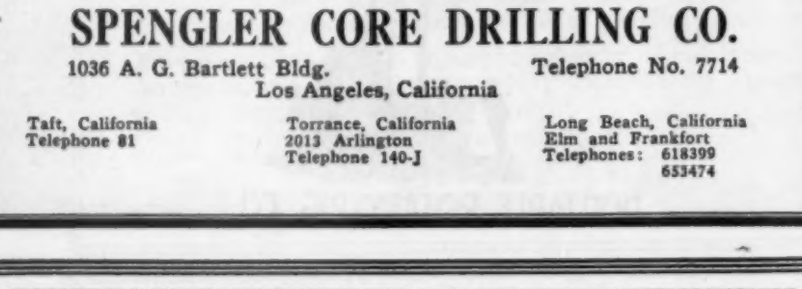

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1, 8-4-12, dk. Haley & Evans' Pike 1, 8-6-11, sd 50 ft.

HEMPSTEAD COUNTY — Dudney et al's Spates 1, 19-12-27, sd 2000 ft. Hope Columbus Oil Co.'s King 2, 24-11-26, to pull packer 2156 ft. Simmons Trust's (Martin) Adams 1, 36-12-27, reset 4½-inch 2700 ft. Meyer et al's Nicholls 1, 17-11-25, fsh 1980 ft.

LA FAYETTE COUNTY — Ken-Saw Pet. Co.'s Red River Lumber 2, 3-20-24, dk.

LITTLE RIVER COUNTY—Gaines et al's Thomas 1, 16-13-29, dr 3215 ft. Grote et al's Allen 1, 2-13-29, dr 2860 ft. Johnson et al's Hawkins 1, 10-11-31, dr 1375 ft. Red River Velley Oil Co.'s Taylor 1, 29-13-29, sd 2790 ft.

MILLER COUNTY—Kress et al's Thompson 1, 33-14-28, sd 917 ft.

NEVADA COUNTY—Dudley et al's Grayson-McLeod 1, 32-11-21, sd 1810 ft. Kan-Ark Oil Co.'s (Straighan) Honea 1, 12-12-21, sd 1446 ft. Lockhart et al's Porter-Cornelius 1, 17-10-22, sd 1000 ft. Prescott Oil Co.'s Henry 3, 10-12-20, sd 1000 ft.

OUACHITA COUNTY—Dee et al's Criner 1, 21-15-19, dk. Morefield et al's McDaniels 1, 28-14-17, set 8-inch 2150 ft; to test 6 feet of sand at 2211 ft.

UNION COUNTY—Berry et al's Union Saw Mill 1, 14-19-11, sd 875 ft. Bondurant et al's Turbeville 1, 9-18-12, dr 2570 ft. Harrell Tru t's Teele 1, 11-19-12, sd 3177 ft. Jeter Trust's Burnside 1, 33-17-13, sd 3055 ft. Lemond et al's Terrell 1, 22-18-14, dk. Traffic Oil Co.'s Goodwin 1, 20-16-14, sd 3026 ft.

Louisiana Wildcats

BIENVILLE PARISH — Silas Borden's Thomas 1, 8-16-9, rig.

BOSSIER PARISH—Armistead et al's Bernstein 1, 11-20-13, sd 1180 ft. Skannal et al's R. R. Lands Co. 1, 13-17-12, dr 1765 ft; Smith 1, 24-17-12, sd 2517 ft.

CADDO PARISH—Adams et al's Johnson 1, 16-14-16, sd 710 ft. Ark-Caddo Oil Co.'s Nickerson 1, 30-19-15, sd 2450 ft. Brewer & Sewell's Sharp 1, 10-18-16, rig. Caddo-Western Gas Co.'s Gardner-Blades 1, 2-16-15, r 2665 ft. Collins et al's Levy 1, 23-19-14, swabbing salt water and a little oil at 2549 ft. Crude Oil Co.'s Alexander-Ledbetter 1, 27-16-14, sd 3655 ft. Louisiana-Texas Community Oil Co.'s McCoy 1, 15-23-16, dr 2990 ft. Rowe-Daniels Synd.'s Rhodessa O. & L. Co. 1, 22-23-16, rig.

CALDWELL PARISH—Culver et al's Culver 1, 21-14-4e, dr 2525 ft.

CLAIBORNE PARISH — Black O. & G. Co.'s Aubrey 1, 20-21-8, to set 6-inch 1430 ft. Dixie Oil Co.'s Easter 1, 20-20-7, dr 2590 ft. Forrest Oil Co.'s Fields 1, 22-19-5, dr 2050 ft. Pomeroy et al's Hurman 1, 34-20-6, dk abn. Woodley et al's (Arnet) Calhoun 1, 26-21-6, dr 1550 ft.

DE SOTO PARISH—Greyhound Synd.'s Pollack 1, 36-11-14, dr 1500 ft. Tarver et al's Hewitt-Hicks 1, 10-11-14, dr 1225 ft. Ulrey et al's Frost-Johnson 1, 3-11-15, dr 2940 ft.

EVANGELINE PARISH — Invincible Oil Co.'s Manuel 1, 36-5-2, dr 325 ft.

GRANT PARISH—Grant Parish Pet. Co.'s Ball 1, 1-8-1w, dr 2100 ft.

LA SALLE PARISH — Bur-Ban Oil Co.'s Urania 2, 21-21-2e, dr 1750 ft. Gulf Ref'g Co.'s Urania Lumber 1, 22-11-2e, dk; Urania A-1, 22-11-2e, sd 1022 ft. Stovall Drlg. Co.'s Louisiana-Central Lumber 2, 27-10-2e, salt water at 1415 ft; to set 4½-inch with packer at 2000 ft. Urania Pet. Co.'s Urania 4, 20-10-2e, dr 1415 ft.

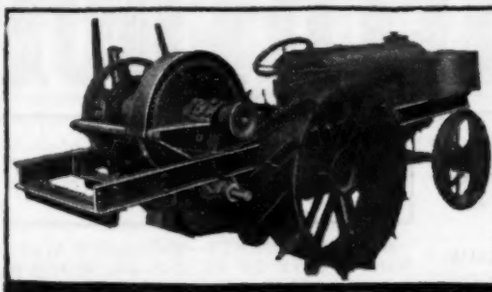
LINCOLN PARISH—Buckner et al's Barrett 1, 13-20-3w, dr 1110 ft.

RED RIVER PARISH—LeGrande et al's Fee 3, 2-14-12, set 6-inch 2440 ft.

UNION PARISH—Cargile et al's Heard 1, 21-21-3w, fsh 2409 ft. Costello et al's Nelson 1, 17-23-1w, dr 650 ft. Frankel Bros.'s Breazeale 1, 30-23-2w, set 6-inch 2082 ft. Love & Clark's Frost-Johnson 1, 7-23-1e, abn 2328 ft. Palmer et al's Frost-Johnson 1, 18-23-1e, abn 2234 ft.

WEBSTER PARISH—Olmstead et al's Hudson 1, 17-19-10, sd 800 ft.

WEST CARROLL PARISH—Arkansas Fuel Oil Co.'s Fiske 1, 8-21-10e, dr 2290 ft. Orion Oil Co.'s Bain Wagon 1, 23-23-10e, sw 2900 ft.



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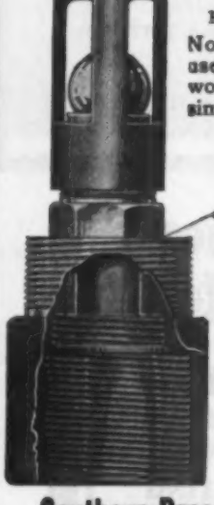

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ALFALFA COUNTY—McGuinnie & Wards' Watts 1, C NE SW SE 21-27-10w, sd 3010 ft. Armstrong, Henley & Piffless' Turnbull 1, C NW SE NW 23-24-11w, sd 50 ft.

ATOKA COUNTY—McPhearson et al's Wild 1, SWc NW 7-2-9, sd 4105 ft. Henson et al's Dabney 1, C SE NW 17-4-11, fsh 1720 ft. J. P. Torrence et al's Fee 1, SWc NE 1-2-9, dr 1500 ft. Wapanucka Dev. Co.'s Underwood 1, C W L SE SE 28-2-9, co 1700 ft.

BECKHAM COUNTY—Lewis & Co.'s Burkhalter 1, C NE NW 6-9-24w, sd 2750 ft.

BLAINE COUNTY—Meyers et al's Chronister 1, SEc NW NW NE 7-18-15w, sd 965 ft. Thompson's Dickerman 1, C SE SE 26-15-12w, sd 3213 ft. Okomo Oil Co.'s Eklemeir 1, SWc 21-15-10w, sd 2610 ft.

BRYAN COUNTY—Lyons et al's Coombe 1, SEc SW NW NE 11-8-9, dr 900 ft. Alexander's Hampton 1, SEc NE 26-7-11, dr 1400 ft.

CANADIAN COUNTY — Thos. Revelle's Dawson 1, NEc 34-13-9w, fsh 2635 ft. Carroll et al's Setter 1, SEc 2-13-8w, sd 110 ft.

CLEVELAND COUNTY — Garr Oil Co.'s Holland 1, NEc SE 31-10-4, sd 2620 ft.

CUSTER COUNTY—Hoover Oil Co.'s No. 1, NWc SE 34-13-14w, sd 2510 ft. Magnolia's Cutfinger 1, NWc SE 17-13-14w, dr 1090 ft.

COAL COUNTY—Basie Oil Co.'s Heck 1, SEc 18-2-9, rig. Bearman et al's Payte 1, SWc NW NE 32-2-9, sd 2780 ft. Guy Vaughin's Nichols 1, SWc 1-1-11, rig. Douglas Oil Co.'s Johnson 1, C NW SW 12-5-9, dr 1350 ft.

GRANT COUNTY—Embry et al's Edwards 1, C SE SE NW 20-26-4, sd 1000 ft. Midwest & Gulf's Moon 1, NEc NW 8-27-8w, sd 2300 ft. Phillips Pet. Co.'s Riding 1, NEc SE NW 29-29-4w, sd 3038 ft. Frank Travis et al's Fuss 1, SWc NW NW 3-27-4w, dr 900 ft.

GREER COUNTY—Neal et al's Johnson 1, SEc NE NW 3-7-22w, sd 1200 ft. Boss & Terrills' Van Victor 1, C SW SW 4-3-22w, rig.

HUGHES COUNTY — Furhman Pet. Co.'s O'Miller 1, SWc SE SE 5-7-9, dr 2700 ft. Mathers & Skelley's McClain 1, C SW SW 4-5-11, sd 3026 ft. Dixie Oil Co.'s Irvine 1, SWc NW SE SE 18-8-10, fsh 3040 ft.

JACKSON COUNTY—J. D. Wade's No. 1, C SW NW 15-1-23, swdg 6-inch, td 2810 ft. J. R. Abernathy's Snodgrass 1, C NW NW 15-1-23w, sd 1601 ft.

JEFFERSON COUNTY — Shawver et al's Anderson 1, SEc NE 31-4-8w, sd 1200 ft. Landis et al's Standfield 1, SEc 33-7-6w, sd 1150 ft. Roy Johnson's Mullen 1, NEc NW 9-4-4w, dr 760 ft. Barker et al's Major 1, C SE SW 34-5-6w, lcn. Sigler et al's Woodworth 1, C NE NW 36-5-4w, timbers.

JOHNSON COUNTY—Washita Oil & Gas Co.'s Trootes 1, C SE SE NE 7-4-4, sd 2180 ft. United "8" Oil Co.'s Holden 1, NWc SW NW 36-5-6, dr 2320 ft.

KAY COUNTY—Ostot Dev. Co.'s Rohos 2, C NE SE 3-27-1, pb to 3440 ft. Alcorn Oil Co.'s North 1, NEc NW NE 12-26-2w, sd 2543 ft. Day Oil Co.'s Vandatta 1, SWc NW 8-26-2w, fsh 2835 ft.

KIOWA COUNTY—Connor et al's No. 2, NEc NW NW 34-7-16, sd 1548 ft. Aubyme Oil Co.'s No. 1, SWc NE 3-7-17w, shut in to test 1205 ft.

LINCOLN COUNTY — Sun Ray Oil Co.'s Gallagher 1, C N L SE SE 18-13-5, sd 3505 ft. P. & R. Corp.'s Hainzig 1, SWc NW SW 14-13-6, f.h 2030 ft. Douglas Oil Co.'s Ewing 1, NWc 7-13-3, rig rotary, td 2405 ft. J. C. Cook's Richardson 1, SWc NE SW 8-12-5, sd 1325 ft. Eugene Costa et al's Dodrill 1, SEc NW 26-12-2, sd 1476 ft.

LOGAN COUNTY—Buford-Brim Oil Co.'s Newman 1, NWc NW 32-19-3w, cas trouble at 2345 ft. Oklahoma Drilling Co.'s Johnson 1, SEc SW 36-15-2w, sd 716 ft. Franklin Oil Ass'n Moore 1, NWc SE SE 28-19-4w, dr 1710 ft. McMunn & Nixon's Fields 1, SWc NE SE 35-7-4w, rig. Haley & Pioneer Pet. Co.'s Quiar 1, SWc SE 33-18-3w, rig rebuilt. Pluto Oil Co.'s Lair 1, C S L N½ SE 28-16-1w, sd 750 ft. Gilliland Oil Co.'s Ohm 1, C NW 5-19-2w, r 825 ft. Magnolia Pet. Co.'s Pritchard 1, NWc 23-15-1e, r 1200 ft.

LOVE COUNTY—Wichenheiser et al's Beal 1, NEc SE 13-5-3, fsh 3198 ft. Driller Syndicate Oil Co.'s Wilson 1, NWc NE 11-7-2, sd 2830 ft.

MAJOR COUNTY—Texas Prod. Oil Co.'s Basin 1, SWc 36-22-14w, spd and sd. Bradstreet Oil Co.'s Ratcliffe 1, C SW 9-22-9w, cementing, td 2680 ft. Frantz & Slick's Gray 1, C NW 36-21-11w, sd 1000 ft.

MARSHALL COUNTY—P. & H. Oil Co.'s Franklin 1, C E L NW NE SW 34-6-7, sd 1680 ft. Simms Oil Co.'s Starritt 1, SEc NE SE NE 29-6-3w, r 900 ft.

OKLAHOMA COUNTY — Firestone Oil Co.'s School 1, NWc SE 36-11-3, dr 3840 ft.

PONTOTOC COUNTY — Harper et al's Dener 1, NWc SE SE 19-5-7, sd 2365 ft. Smith et al's Norris 1, SWc SE 34-4-6, sd 2430 ft. Riverside Oil Co.'s McFarland 1, NWc NE NW 4-5-5, r 650 ft. Roy Carter's Burk 2, NEc SE SE 32-5-5, sd 2960 ft. C. J. Wrightsman's Floyd 1, SWc NW NE 24-4-4, dr 1505 ft. Galloway et al's Hays 1, NEc SE NW SW 13-3-6, sd 2126 ft. Craig et al's Starritt 1, NWc NE 5-4-5, sd 600 ft.

POTTAWATOMIE COUNTY — Ossie Oil Co.'s Howell 1, SWc NE 13-10-2, dr 2620 ft. Davis Detricks' McGahey 1, SEc 10-6-2, dr 3660 ft. H. G. Guinnup et al's Floyd 1, SWc SE 12-11-3, fsh 3670 ft. North American Oil Co.'s Madgett 1, NWc 25-10-4, dr 460 ft. Maud Oil Products Co.'s Yinson 1, NEc SW 18-7-5, sd 2930 ft. McMann Oil Co.'s Neghan 1, SWc

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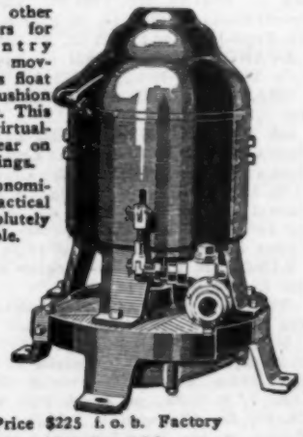

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ROGER MILLS COUNTY—Twin Hills Oil Co.'s McClure 1, NWc 15-15-26w, dr 3009 ft. Trio Oil Co.'s No. 1, SEc NW SW 3-13-26w, td 3036 ft.

SEMINOLE COUNTY — Maxwell et al's Charty 1, C NE NW 33-6-6, r 1600 ft. Link Oil Co.'s Carolina 1, C SE NW 14-6-7, dr 2840 ft. T. B. Slick's Sanny 1, 19-6-7, dr 3214 ft. Wm. McDougal's Dindy 1, C SW SW 20-6-7, dr 3240 ft. R. F. Garland's Farlin 1, C NE NW 6-6-8, dr 810 ft.

TILLMAN COUNTY—A. L. Spears' Couch 1, NWc NE SW 10-4-18w, sd 1590 ft.

WASHITA COUNTY — R. B. Hartman's Montgomery 1, NEc SW 32-9-17w, sd 4150 ft. McCoy et al's Preter 1, C SW SW NE 9-8-15w, sd 3115 ft. Sun Ray Oil Co.'s Rice 1, SEc 33-8-18w, sd 1775 ft.

WOODS COUNTY—Victor Oil Co.'s Van Buskirk 1, SWc SE 10-25-15w, sd 960 ft.

Kansas Wildcats

BARBER COUNTY—R. B. Brown's No. 1, NWc SE NE 33-3-14w, r 3520 ft; Elsa 1, SWc 27-32-14w, rig.

BARTON COUNTY — Cheyenne Oil Co.'s Sooy 1, SWc SW 27-18-12w, sd 3525 ft. Haynes et al's No. 1, NWc 31-12-12w, sd 1700 ft. Mountain States Oil & Gas Co.'s No. 1, SEc NE 22-18-13w, run cas to 3200 ft. Jasper & Becahka's Schauf 1, SEc NW 11-16-12w, co 2425 ft. Huffine et al's Smith 1, C NE SW 21-19-12w, rig blown down, td 1605 ft. Streeter & Stearns' Brown 1, NEc SW 21-19-12w, sd 3290 ft, show oil.

COFFEE COUNTY—Sunbeam Pet. Co.'s Andrews 1, NWc NE 32-20-15, rig. Thad O'Days' Allen 1, NWc SE 13-21-15, sd 900 ft. Manhattan Oil Co.'s Elliott 1, NWc SW 14-23-13, sd 350 ft.

CLARK COUNTY—Watcham O. & G. Co.'s Morrison 1, SEc NE NE 2-22-21w, sd 4685 ft.

CLOUD COUNTY—Livingston et al's Murdock 1, NEc 7-6-4w, sd 365 ft.

ELLIS COUNTY—J. Alan Harvey's Polifka 1, SEc NW NE 18-13-17, repair boiler at 2490 ft.

GEARY COUNTY—Liberty-Texas Oil Co.'s Wright 1, NEc 8-12-6, sd 750 ft; Foster 1, NEc SW 30-12-6, sd 2000 ft.

HARPER COUNTY—D. P. Fleegers' Nettingham 1, SWc 14-33-9w, r 3505 ft.

FINNEY COUNTY—Garden City O. & G. Co.'s Wann 1, SEc SE 36-21-30, sd 2890 ft.

GOVE COUNTY—Keys Bros. & Marine's Unknokn 1, NWc SE 2-11-26w, lcn; Unknown 1, NWc SW 23-13-26w, lcn.

JEFFERSON COUNTY—Northern Counties' Edwards 1, SEc NW NW 13-9-19, sd 3405 ft.

KINGMAN COUNTY—Hale et al's Garner 1, SWc NW 34-27-7, sd 2543 ft.

LINCOLN COUNTY—Trees Oil Co.'s Kohler 1, SEc 36-11-10w, r 3205 ft. Turman Oil Co.'s Dohl 1, SEc NW 25-12-10w, r 3110 ft. Berry & Rosenthal's Lambert 1, C NW 31-12-10w, sd 1750 ft. Amerada Pet. Co.'s Crawford 1, NEc SW SE 16-11-7, fsh 1815 ft. Equity Oil Co.'s Jellison 1, NWc SE 19-13-9, dr 2225 ft.

NEMAHA COUNTY— Nemaha O. & G. Co.'s Meyers 1, NWc 19-3-11, sd 3250 ft.

MITCHELL COUNTY — Alcorn Oil Co.'s Beeder 1, NEc 10-9-8w, dr 2225 ft.

OSBORNE COUNTY—Ligett et al's Worley 1, NWc NW 34-10-15w, dr 3455 ft. Delhi Oil Co.'s Forman 1, SWc SW 30-10-11, r 3250 ft.

OSAGE COUNTY — Rodgers & Bittles' Bertha 1, SEc NW 22-17-16, lcn. Mul-Vit Dev. Co.'s Neil 1, NEc NW SW NE 8-17-17, sd 2735 ft. Moyer et al's Williams 1, NEc SW NW 12-18-14, rig.

POTTAWATOMIE COUNTY—Crawford et al's Stewart 1, C E L SE SE SE 17-9-12, rig; Greischabert 1, SWc SE SE SW 31-9-12, rig; St. Mary 1, SWc 11-1-12, sd 2290 ft.

RICE COUNTY—H. T. Proctor's Taylor 1, NWc 15-21-10w, spd and sd. Rino Oil Co.'s Decall, SEc SW NW 35-19-8w, dr 3400 ft. Emerson Casey's Bush 1, NEc 7-20-16w, co 3556 ft. Stamey et al's Barnes 1, SEc NE 21-20-6w, sd 2210 ft.

RILEY COUNTY—Walton Oil Co.'s No. 1, NWc 20-10-12, sd 1600 ft. Pawnee Oil Co.'s Marks 1, SWc NE NW 26-10-6, sd 1700 ft.

RUSSELL COUNTY — Valerius O. & G. Co.'s Philips 1, SWc 3-13-13w, sd 3802 ft. Merriam et al's Murphy 1, C SW 11-12-12w, dr 3130 ft. P. & R. Corp.'s Haise 1, NWc SE 24-12-15w, r 3025 ft. Patton et al's Walbridge 1, SWc NE 4-13-13w, dr 3065 ft. Amerada Pet. Corp.'s Milke 1, SWc SE SW 20-12-15w, hfw at 3079 ft. White Eagle O. & R. Co.'s Dodge 1, SEc SW SW 29-11-15w, skidding rig. Pomeroy et al's Cooper 1, SEc 33-12-11w, dr 1210 ft. C. E. Suppes et al's Miller 1, SWc 25-12-12w, lcn. Alcorn Oil Co.'s Seller 1, SEc 36-15-12w, r 2350 ft. J. Gardiels Buels' Dieroth 1, SEc NE SW 1-14-11w, r 2460 ft.

SEWARD COUNTY — C. T. Dev. Co.'s Woods 1, NWc SE 34-34-34, sd 700 ft. Seward O. & G. Co.'s Selaey 1, NEc NW 2-33-33, dr 2427 ft.

TREGO COUNTY—Keyes Pet. Co.'s Walsh 1, NWc SE 5-11-25w, sd 1700 ft; Walsh 2, SWc NE SW 5-11-25w, sd 1550 ft. Keyes Bros. & Marine's Davis 1, NEc SW 16-11-24, dr 3030 ft.

WASHINGTON COUNTY—Barnes O. & G. Co.'s Wichjam 1, SEc SW 9-3-5, sd 1305 ft.

WOODSON COUNTY — Equity Oil Co.'s Soloman 1, SWc NE NW 30-26-17, sd 3360 ft.

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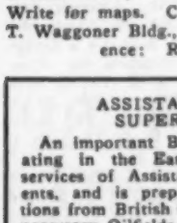

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Oklahoma Quarterly Production Report

(Continued from page 42.)

Company and Location—	Barrels
Whitehall Petr. Co., Tulsa	2,011
Whitehead Oil Co., Sapulpa	2,116
Whitehill, B. F., Tulsa	1,961
Whitehill, H. J., Tulsa	163
Whitehill, Donovan & Whitehill, Tulsa	860
Whitehill, Donovan, Hayden & Whitehill, Tulsa	794
Whitehill & Glass, Tulsa	1,434
Whitehill, Smith, Shaw, et al, Marietta, Ohio	1,633
Whittier, M. H., Tulsa	1,008
Wickett, K. L., Tulsa	584
Wilcox, H. E., Independence, Kans.	70
Wilcox, H. F. Oil & Gas Co., Tulsa	440,819
Wilcox, H. G. & E. M. Oswalt, Tulsa	246
Wilcox, Oswalt & Wilcox, Indianapolis, Ind.	652
Wilhoit, Ethel J., Exec'x., & R. M. Jones, Trustee, Kansas City, Mo.	1,398
Wilhoit, J. C., No. 2 Account, Kansas City, Mo.	3,520
Wilkinson, Eugene, Nowata	3,203
Willis Oil & Gas Co., Cushing	5,565
Wilson, Hiram C., Tulsa	14,119
Wilson, M. A., Dewey	964
Wilson & Jackson, Sapulpa	153
Wineland Oil Co., Boynton	677
Winemiller, J. H., Tulsa	328
Winona Oil Co. of Delaware, Tulsa	68,644
Winters, M., Independence, Kansas	690
Winters Oil Co., Bradford, Pa.	778
Wi.e & Jackson, Sapulpa	21,445
Wiser Oil Co., The, Bartlesville	69,203
Withington, Margaret M., Marietta, O.	269
Withington Oil Co., Dewey	1,537
Wittmer Prop. Trustees, Pittsburgh, Pa.	1,574
Wolfe, F., Tulsa	234
Wolfe, Frank, Trustee, Tulsa	775
Wolfe Oil Corp., Bristow	11,822
Wolverine Pet. Corp., St. Louis, Mo.	606,355
Wood, T. J., Tulsa	12,558
Wood Oil Co., Tulsa	87,156
Woodard, Geo. E., Nowata	1,225
Woodard-Burkett-Woodard, Nowata	1,341
Woodard-Woodard, Nowata	847
Woodard-Woodard Tools, Nowata	80
Wright, J. H., Sapulpa	2,724
Wrightsman Pet. Co., Tulsa	260
Wunderlich, I. L., Morris	56
York Oil & Gas Co., Muskogee	7,380
Young, Louise, Tul.a	210
Young & Wilson, Dewey	429
Zahn & Crawford, Tulsa	1,884
Zelma Oil Co., Tulsa	337

SUPPLEMENTAL

Advance Oil Co. & Advance Production Pool, Ft. Worth, Texas	339
All American Oil & Gas Co., Okla. City	4,245
Amster, N. L., Ardmore	87,850
Barr, W. E., Nowata	2,924
Big Four Oil Co., Independence, Kans.	194
Bloch Oil Co., Tulsa	1,039
Blum Oil Co., Nowata	132
Bonfell, John H., Grand Rapids, Mich.	1,547
Boop, Sitz, Glass & Calvert, Nowata	210
Bradnorking Oil & Gas Co., Tulsa	1,154
Brandes Oil Co., Nowata	83
Bridgman Oil Co., Nowata	240
Burton-Springfield Oil Corp., Tulsa	7,914
Butler & Johnstone, Okla. City	331
Canada Oil Co., Nowata	498
Champlin & Winkler, Enid	15,169
Connely, W. C., Tulsa	781
Continental Oil Co., Okla. City	29,390
Crews Estate Oil & Gas Production, Enid	25,086
Crosbie, Davis, Sloan & Sturm, Tulsa	2,163
Crosbie & Sturm, Tulsa	3,094
Curtis & Aiken, Tulsa	572
Dwyer, J. D., Tulsa	12,722
Gatewood, Guy, Bartlesville	163
Gatewood, Pearl A., Bartlesville	72
Gilbert, D. Lawrence, Glendale, Calif.	271
Glass, J. Wood, Nowata	270
Glass & Weaver, Nowata	50
Goble, B. G., Tulsa	1,604
Hamon & Colcord, Ardmore	14,734
Haney, Phil. P., Coffeyville, Kans.	199
Harrell, F. H., Ardmore	626
Hayden, John F., Tulsa	1,562
Hazen, Irwin R., Agt., Chicago, Ill.	770
Hivick, L. C. & J. P., Ardmore	469
Hollingsworth, H. L., Broken Arrow	39
Holly Oil & Gas Co., Tulsa	21,431
Jameson, John B., Concord, N. H.	2,189
King, C. A., Nowata	63
King, C. A. & Fred Bum, Nowata	394
Kistler, Emily, Tulsa	512
Layton Oil Co., Tulsa	514
Little Fay Oil Co., Tulsa	24,776
Marshall Oil Co., Nowata	251
Moore, J. A., Okmulgee	869
Mutual Oil Co., Tulsa	471
National Oil & Dev. Co., Okla. City	11,725
National Union Oil & Gas Co., Blackwell	11,926
New England Oil & Pipe Line Co., Boston, Mass.	42,976
Oklahoma Eastern Oil Co., Tulsa	7,586
Oklahoma-Mexia Oil & Gas Co., B. T. Tackett, Trustee, Duncan	2,328
Omar Oil & Gas Co., Pittsburgh, Pa.	557
Onyx Oil Co., Iola, Kans.	291
Parmenter, L. C., Muskogee	81
Parmenter, W. L., Lima, Ohio	2,438
Parmenter, W. L., No. 2, Lima, Ohio	397
Parri.h Oil Co. & Reed, Nowata	2,626
Parsons, E. E., Okemah	1,181
Pilgrim Pet. Corp., Tulsa	1,676
Presbury, J. A., Pawhuska	798
Redd Oil Co., Tulsa	576
Ross, E. A., Tulsa	16
Sawyer, F. L., Trustee, Independence, Kans.	134
Smith & Daugherty, Nowata	195
Speirs, A. J., Jenks	897
St. Charles Oil Co., St. Charles, Mo.	497
Steinberger & McKinley, Trustees, Tulsa	1,715
Straight, Preston, et al, Bartle.ville	1,838
Summers, Jack, Muskogee	1,122
Sunny Jim Oil Co., Tulsa	131
Tyee Oil & Gas Co., Bartlesville	1,901
Tyler, D. M., Dewey	1,409
Vandervoort & Hoss, Piatt	445
Van Horn, E., Chelsea	177
Vensel, Elliott & Vensel, Tulsa	3,580
Warwock, L. H., Trustee, Nowata	379
Welsh, M. P., J. Welsh and C. T. Daugherty, Nowata	329
Western States Oil & Land Co., The, Casper, Wyoming	3,091
Worton, J. J. et al, Pawhuska	454

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Field Gas Testing. Analysis of oil field brines, gas minerals and oil
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Manufacturer and Supply Dealer Notes

Rapid Progress Being Made On Exposition Buildings

Tulsa, Okla., Aug. 14.—Rapid progress is being made on the construction of the three new steel buildings and the three arcades, at the grounds of the International Petroleum Exposition. With the seven buildings now on the grounds, these will house the commercial, scientific, technical and historical exhibits, while three acres of open space will accommodate the heavier type of oil well and refinery equipment.

Foundations for the new buildings are laid, and work upon the superstructure has progressed rapidly. The permanent buildings on the grounds are of brick ideally suited to exposition purposes, needing only re-flooring, decorating and a few minor improvements.

Contracts were signed last week for the construction of 450 exhibit booths within the buildings and the 600 feet of arcades, and they will be installed as soon as condition of the buildings permits. The booths will be built of white wood framework and paneling of apple-green sheetrock, in keeping with the exposition colors, green, white and gold. They are constructed with a panel 5 feet in height and 10 feet wide in the back, side panels 4 by 4 feet, and a wood railing at the front. The railings and side panels may be omitted at the wish of the exhibitor. The equipment of each booth includes a uniform sign and a 100-watt lamp with shade. Extra lighting, electric power for motors, gas and water, may be had at a low cost. Sign writers will be on the grounds to take care of the demand for extra signs.

The exposition has bought its own furniture, and will rent it to the exhibitors at a nominal sum. It includes oak chairs, tables and costumers, linoleum rugs and cuspidors. Every effort will be made to cut down the cost for the exhibitors this year.

Plans for the beautifying of the exposition grounds include smooth lawns, flower beds and screens of shrubbery, all of which will be arranged by landscape gardeners as soon as the heavy building is completed. The six avenues and the central plaza will be graded and paved with crushed stone and shat. A single large gate at each end of the long seven-acre tract will insure the greatest amount of ease in handling the crowds, which are expected to exceed all records.

F. M. Breene Succumbs After Extended Illness

Tulsa, Okla., Aug. 11.—Frank M. Breene, 53, president of the Winona Oil Company and also head of the Osage Oil and Gas Lessees Association, died August 8 in New York after an extended illness. Mr. Breene had been prominently connected with the development of the oil industry since an early age and since 1907 had played an important part among producers in the Mid-Continent. He had been a resident of Tulsa since 1917.

Born at Franklin, Pa., in 1871 Mr. Breene early became identified with the oil business, although his parents were not interested in the industry before him. He began active oil field work in the regions of northern Ohio and later on became a drilling contractor and then a producer on his own account. For a time he resided at Findlay, Ohio, following the business, however, in several other states before coming to the Southwest, including West Virginia, Pennsylvania and Kentucky.

At the time when activity in southeastern Kansas was at its height Mr. Breene with his brothers—Harry, E. C. and W. J.—came to Independence and in 1904 organized the Winona Oil Company with headquarters then at St. Louis, Mo. In 1910 the headquarters of the company was moved to Bartlesville and in 1917 to Tulsa. Mr. Breene became the company's president and directing head in 1914.

As one of the organizers and moving spirits and the only president of the Osage Oil and Gas Lessees Association, Mr. Breene directed the affairs of the organization in such a way as to not only enlarge its usefulness but brought renown on himself as well through his application to land and leasing problems in the Osage Nation.

Tulsa, Okla., Aug. --.—R. P. Barton of Tulsa, has purchased the Central Torpedo Company with offices in the Bliss building and has changed the name to that of the Barton Torpedo Company. The company operates in the Mid-Continent field.

Mr. Barton also is one of the organizers of the Mid-Continent Torpedo Company with headquarters in Casper, Wyoming.

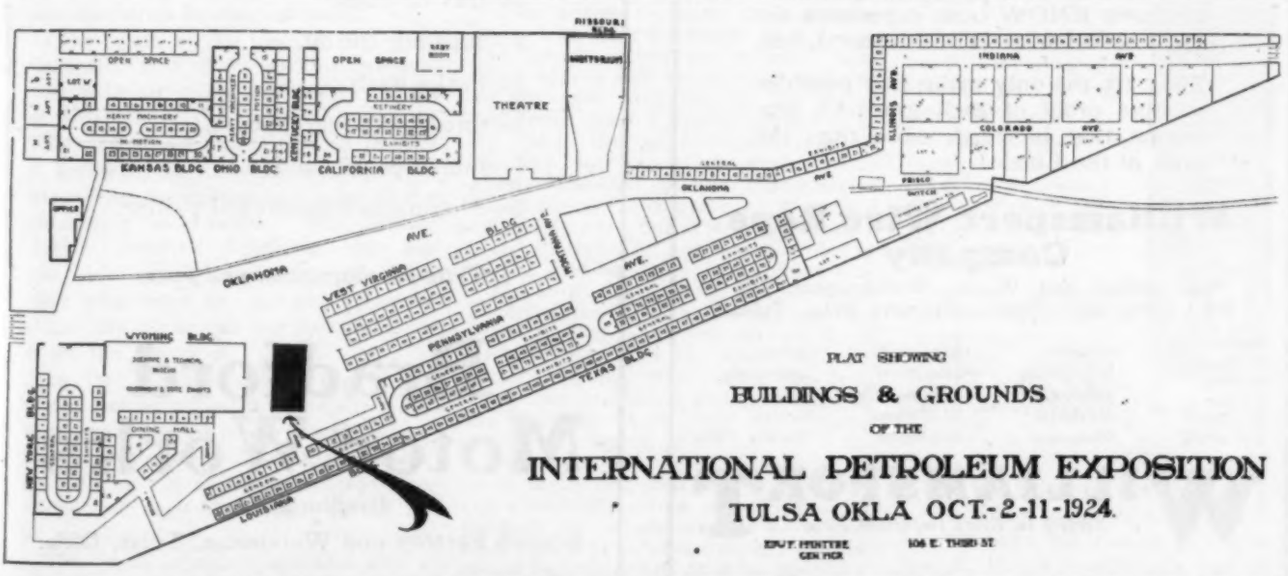
Lexington, Ky., Aug. 11.—Superior Oil Corporation with headquarters here has increased its capital investment in Oklahoma from $835,768.81 to $1,257,-262.51.

Tulsa, Okla., August 11.—Over a hundred thousand barrels of oil was completely destroyed here Saturday when lightening struck two fifty-five thousand barrel tanks at the oCnstantin Refinery at West Tulsa. The tanks were under lease to the Cosden Pipe Line Company who owned the oil in storage.

The loss is estimated at $300,000 and was only partly covered by insurance.

Gulf Zone Office to San Angelo

San Angelo, Texas, August 12.—The Gulf Production Company has moved its West Texas zone office from Sweetwater to San Angelo, since interest in West Texas wildcat operations have shifted to the Reagan County area. Paul M. Buchanan is the zone agent in charge of this office, while O. C. Harper is in charge of geological work.



Revised Plat map of the International Petroleum Exposition and Congress grounds and buildings, arrow indicating the booth of the Gulf Publishing Company, publishers of the The Oil Weekly, The Refiner and Natural Gasoline Manufacturer and The Filling Station.

Quick Service and Protection Against Substitution of Wire Lines in Every Important Field

OUR WAREHOUSE AT MILDRED, TEXAS

Left to right: E. A. McKenzie, our manager at Mildred, Texas; Fred Gibson, Pure Oil Co.'s warehouseman at Mildred; S. L. Parker, our warehouseman at Mildred, Texas.

Right near you you'll find a large stock of

WILLIAMSPORT WIRE Telfax Tape Marked LINES

and in every field you'll find plenty of men who KNOW from experience the superior value of Williamsport Lines.

They are the only make that provides positive proof of each grade—a protection that is worth more than the price of the Line.

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Graham	Holdenville	Smackover	Lewistown
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Shidler	Muskogee	El Dorado	Electra
Blackwell	Okmulgee	Shreveport	Wichita Falls
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Service In Every Important Field

Apply this rule

Multiply the cost of pulling your well by the number of pullings per month. The result is the saving that is now commonly made per month by users of the

"TEX" plunger WORKING BARREL
Trade Mark Reg. U. S. Pat. Off.

For proof of this we need simply refer you to our advertisement in the July 3rd Oil & Gas Journal where cases are cited in which "TEX" Plunger Working Barrels saved as many as **four pullings per week.** Inasmuch as the cost of a "TEX" is very small as compared with the cost of pulling a well is it not absurd to try doing without a "TEX"?

The "TEX" has seven very strong points in its favor, as follows:

1—Will pump floating sand.
2—Has no cups.
3—Will not cut oil.
4—Packs itself.
5—Cuts operating expense.
6—Increases production.
7—Eliminates frequent rod pulling.

Write for description and prices

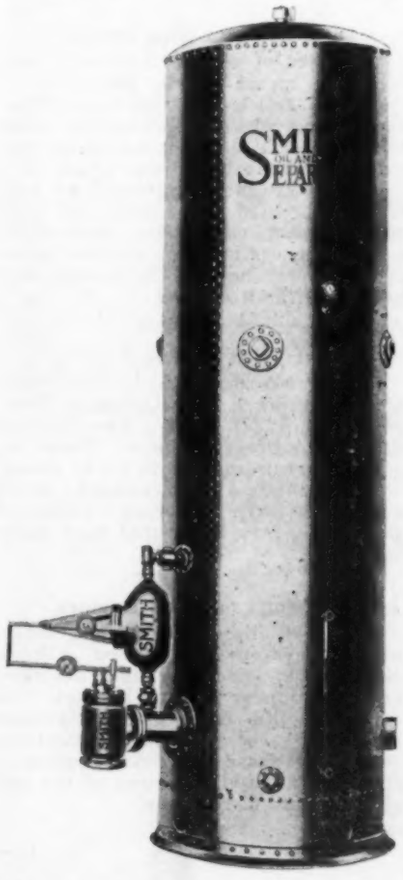
Bradford Motor Works

Bradford, Pa.
Branch Factory and Warehouse, Tulsa, Okla.

NEW EQUIPMENT, CATALOGS, BULLETINS, BOOKS

Improvements Announced by Smith Separator Company

The Smith oil and gas separator now being manufactured and sold by the Smith Separator Company with general offices and plant in Tulsa, embodies a number of outstanding improvements



over the type of separator heretofore manufactured by the company.

The inside of the tank of the Smith separator is free of working mechanism with all valves and levers on the outside where their operation can be observed at all times. At no time is it necessary to take the separator out of service to replace any part of the regulating mechanism. This outside device absolutely controls the discharge of oil and gas and at the same time eliminates any surging effect in either the oil or gas line leading away from the separator.

In the Smith separator the excess gas is not permitted to enter the stock tanks with the oil where it will be subject to waste in the air. All gas is separated from the oil inside the separator which maintains the gravity of the oil at all times.

The Smith separator operates with a pressure or without carrying a pressure. If desired, a vacuum can be carried on the separator.

Further information may be secured by writing The Smith Separator Company, 7th & Cheyenne Streets, Tulsa, Oklahoma.

Baldwin Chain Literature

Several pieces of literature have been announced by the Baldwin Chain and Manufacturing Company, Worcester, Massachusetts. Copies may be secured upon application to the company. Below is a list of the different bulletins with their number: General Catalog, edition G; Care of Chains, No. 16; How to Select a Baldwin Chain Drive. No. 14; Baldwin Roller Chain Adaptations, No. 15; Data on Baldwin Sprockets for Roller and Block Chains, No. 17; Baldwin Steel Roller Conveyor and Transmission Chains, No. 27; Sprockets for Motor Trucks; Baldwin Roller Chains, No. 13; Miscellaneous Applications Baldwin Chain Drives, Bulletin No. 12; Baldwin Block Chains, No. 11.

Attractive Derrick Catalog

Aside from being a regular catalog on tubular steel derricks, Catalog No. 30, published by Lee C. Moore Company, Oliver Building, Pittsburgh, Pennsylvania, contains much valuable information on derricks including an interesting history of derrick construction. The book is illustrated with many interesting views taken in various fields of the country. Copies may be secured by writing the company headquarters.

Depthometer Among Newest Oil Field Equipment

A device for measuring the depth of wells is being manufactured by the Depthometer Company of Chattanooga, Tennessee, and is being sold by the B. & A. Specialty Company of 311 West First St., Tulsa, Oklahoma.

This device is made of aluminum body with case-hardened steel bands and weighs about six pounds. The depth of any well up to 10,000 feet can be measured, according to the manufacturers, and for depths beyond that, the dial on the Depthometer can be reset and the recording started over again. The dial on the Depthometer will register either going in or coming out of the hole, but better results have been obtained by running the device on the sand line when it is coming out.

The small knob on the handle of the Depthometer is a break against the wheel so that when you take it off to measure the bailer the wheel will not revolve, as one turn equals two feet. The upper arm has a spring encased in the body so as to hold the tension against the wheel.

The Depthometer is held in the hand while measuring and the manufacturers advise that it is now in use by some of the larger companies in the field. Further information can be obtained by writing the B. & A. Specialty Company.

"C-C" Working Valve Reduces Pulling Expense

In order to reduce the expense incurred from the cutting of valve cups in pumping wells the producers have tried several different makes and kinds of valve cups, but there has recently appeared on the market the "C-C" working valve that uses a new principle of preventing the sand from reaching the cups and thereby permitting considerable longer life to the cups themselves.

"C-C" Working Valve

This valve is fitted with any cup preferred in the regular way, but is also fitted with two small piston rings both above and below the cup which the manufacturer claims prevents the sand from reaching the cups in the working barrel.

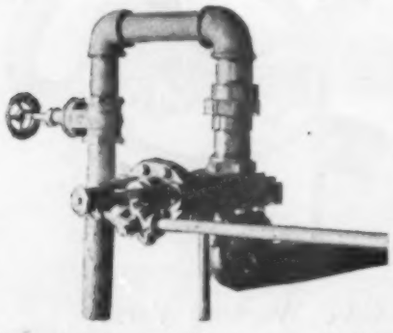
These valves have been used by several different companies that claim pulling expenses have been reduced considerably.

Further information may be secured by writing the D. F. Connolly Agency, Inc., Kennedy Building, Tulsa, Oklahoma.

W. L. Stewart, president of the Union Oil Company, California, Los Angeles, who has certain golf dreams, is at El Monte to take on a few of his boastful friends.

Safety Throttle to Reduce Hazards About Engines

A safety throttle for drilling engines in oil fields has been worked out by D. H. Greenwood, 2446 East 52nd Street, Los Angeles, which the inventor says will prevent accidents that sometimes prove fatal. It is intended to prevent an engine from starting accidentally, because of steam that has leaked through the closed valve, and accumu-



lated in the manifold or cylinders, when touched in some manner while a man is working about the engine, oiling, etc. Application for patent has been filed.

The device is so constructed that a constant steam pressure on the top of the sliding disc keeps the disc tight against its seat, and so precludes possibility of leakage. When the valve is closed, two ports are opened automatically and these release any steam that has accumulated in the engine and the manifold.

The valve which usually requires 5½ turns of the ten inch throttle wheel to close in, is closed with one and one-half turns by a special gear. The gear is applied directly to the valve stem and therefore operates easily and steadily. As a provision against emergencies when it may be necessary to stop the engine quickly, the gear feature alone could prevent many accidents.

It is said that the Greenwood throttle, with its gear control, offers as accurate an adjustment as is possible to obtain without the gear, and makes speedier operation a certainty. But even though leakage should occur in one of these valves, the release outlet is so designed that sufficient steam to start the engine would not be allowed to accumulate in the manifold or cylinders.

The valve is now being manufactured in one size only, to fit a 2½-inch pipe, but other sizes will be announced later.

Further information may be secured by writing the inventor.

Valuable Book On Oil Cases

The OIL WEEKLY has just received a copy of a new book of interest to oil men, Cases on Oil and Gas, by Victor H. Kulp, professor of law in the University of Oklahoma. The tremendous growth of the petroleum industry in recent years has given the courts many problems to solve. The magnitude of the interests involved in the acquisition, development, and disposition of oil and gas rights has engaged the best legal talent of the country, with the result that a large body of law has been and is being developed. It is believed that a sufficiently distinct set of principles has been created, particularly in connection with the rights and obligations growing out of the so-called "oil and gas lease", to warrant a casebook. The cases selected, as well as those cited in the notes, were taken from a wide range of decisions, for the most part of very recent date. In fact nearly seventy per cent of the cases selected were decided during the last ten years, and even a larger percentage of the cases in the notes falls within that period.

The topics and the subject-matter have been chosen with a view of qualifying the young lawyer to care for his client's interest in oil and gas matters. The appendix contains forms of mining leases, assignment of lease, royalty deed, drilling contract and subordination of lien.

This book may be secured from The Gulf Publishing Company, Box 1307, Houston, Texas.

Polish Rod Clamp Embodies Several New Features

A new polish rod clamp, endorsed by many operators, is being put on the market by J. P. Ratigan, Los Angeles, California.

This clamp involves several distinctive features which include construction in one piece. The block is held in position by a pin through the body of the clamp. The strain on the pin is relieved by hinging the block and is done in such a manner that it also offers an additional advantage inasmuch as it gives sufficient leverage for the operator to tighten up the clamp by hand to the degree necessary to hold any length sucker rod string. This eliminates the use of wrenches or snipes and is a factor in fast and efficient handling that will appeal to experienced producers.

The appliance will be known as the Ratigan No. 2 Polish Rod Clamp, and will be furnished in a light and heavy type. The clamp is designed to grip sand lines, wire lines, sucker rods, or polish rods. For wells under 3000 feet, the lighter type clamp is recommended, while the heavy type may be used on wells at any depth.

Further information can be obtained from J. P. Ratigan, 1213 Santa Fe Avenue, Los Angeles, California.

"Sketches of a Pipe Service"

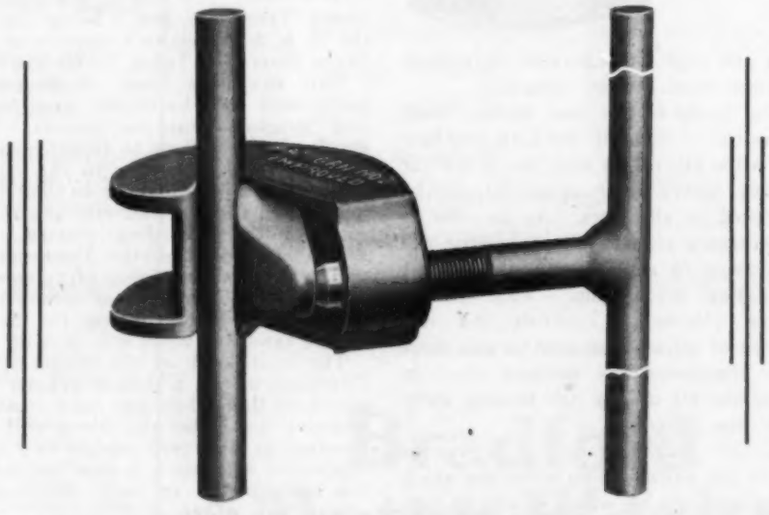
"Sketches of a Pipe Service" is the title of a recent booklet published by the Frick & Lindsay Company, Pittsburgh, Pennsylvania. This booklet gives in minute detail information about pipe from the crude iron from which it is made, to the finished product as it is ready to be used in the field. All illustrations were made from pictures of actual scenes at the manufacturing plant. Upon inquiry, the booklet will be sent without charge.

Stover Gas Engine Catalog

Catalog No. 26, issued by the Stover Manufacturing Engine Company, Freeport, Illinois, U. S. A., describes the Stover line of gas engines. These engines range from 1 to 30 horse power, and have been used successfully in oil field work for many years. Copies of the catalog may be secured upon application.

Catalog on Diesel Engines

In a well illustrated catalog, McIntosh & Seymour Corporation, Auburn, New York, discusses and describes heavy stationary type oil engines. The catalog is illustrated with sepia-toned illustrations of unusual distinctness and every phase of Diesel engines is discussed minutely. Copies of the catalog are for distribution.



The OIL WEEKLY will print on this page data on new oilfield equipment, improvements on old equipment, news of new catalogs, bulletins, etc. This department is handled exclusively by the editorial department and has no connection with the advertising department. Data will be carried on anything which the editorial department thinks of interest to our readers, regardless of whether or not the manufacturer is an advertiser in the The OIL WEEKLY.—Publisher.

No Bootlegging

(*Ply Separation*)

WE KNOW THAT a marked tendency toward separation exists in many things not homogeneous. Veneer comes off of furniture. Medicines must be shaken before taking. Slabs of rubber flake off our tires. And so on indefinitely.

Many belts are sewn together with twine or cemented with rubber or gum. Separation sets in when the stitches or cement gives way. This may be caused by a number of things, as for instance steam, rain, humid atmosphere, or air which gets between the plies and is forced along by the progress of the belt over the tight pulleys. It is frequently true that the strain placed on the belt by the load breaks the stitches where they flex sharply around the pulleys.

"Camel Hair" Belting is homogeneous. It is a solid woven fabric. It has no plies and cannot separate or "bootleg."

This is only one of several distinct advantages in the "Camel Hair" Belting which may be had at any Frick-Reid Store.

"CAMEL HAIR" BELTING
REG. U.S. PAT. OFF.

Dreadnaught Rotary Equipment—Complete Cable Tool Equipment—Reid Gas Engines and Powers—Donovan Boilers—Roebling Wire Lines—Whitlock Cordage—F-R Electric Light Plants—Axelson Working Barrels and Sucker Rods—National Transit Steam and Power Pumps—Jones and Laughlin Tubular goods—Ratigan Beam Hangers, Sure Grips, etc.—Camel Hair Belting—F-R Drilling and Pumping SERVICE Belting—Warren Steam Engines—Johns-Manville Packings—Etc.

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Tulsa, Okla. Pittsburgh, Pa.

West of the Mississippi—Stores Everywhere

In Oil Country Equipment—the most HUMAN organization in America

LETTERS OF Paul Peebles P.S.G.

mi deer cleopatry

well cleo hunny I hav bin in jale before now and yu noed about it & noed it was a mistake on the parts of the law, so I gess yu will not hold it agin me now that I am agin ritin 2 yu from what a feller says is durents vile. hunny it is all a mistake & I will be out agin pretty sune, so yu do not need to werry about me. just as soon as I can talk 2 the judge about it & show him mi side I am shure that he will tern me loose & also ball out the ossifers whitch put me in.

I will tell yu all about how it cum hunny so yu will understand. yu see it is this way, they do not understand the workings of a scienctific geenus like I am in this town or in enny other town, so when they caut me runnin a still they busted it up & put me in jale. I am entitled 2 mi damedges for the property whitch they have tore up for me & also for the vallerable time I am loosin bi bein shut up. If I was not honest like I am I cood also su the sheriff for faltse imprininments & also for damadges 2 mi character. but I am honest hunny & no that a reppytashun like mine is above bein smirched bi bein put in jale.

well I gess yu are wondering what it is all about, so I will preseed 2 tell yu.

well hunny it aint no oil shortage in site rite now, but it has been perdicted that it will be sum time so while I am not doin nuthin elst I thort I wood figger out some kind of a subystoot for gasleen 2 run automobeels when it aint no more pertolum oil. I seen sumthin in the papper about a feller makin sum kind of fuel out of old automobeel tires so I thort if he cood do that it was sertenly sum kind of other stuff whitch it is a hole lot of that wood do it. so I started out 2 experyment.

well under this theery of findin a substytoot fuul it are nessary 2 use a still so I borten me 1 like sum bootleggers uses 2 make moonshine in & started out 2 make a exhaustive test of a hole lot of wastid & plentyful stuff whitch wood be cheep on akount of it aint good for nuthin escept 2 throw away.

well the most plentyfullest stuff around here now whitch is being throwed away is watermelen rinds & it just okkurred 2 me that mabe if they was treeted proper in a still it might be a small amount of volitile fractions whitch wood make a good motor fuel. yu no hunny that yu cant tell about sutch things till yu hav tride it.

well 2 make a long story short I gotten me sum rinds in a garbege can & was gittin reddy 2 run them last tuesday but I was delayed till friday & they was settin in the garredge where the still was all that time, with considerbul heet in there on account it is a tin roof & not verry high. well bi the time I gotten reddy 2 make mi experyments the rinds was pretty ripe, but I gotten them squched up & put sum in the still & started a gas fire under it. well she cummensed 2 cummin off a pretty nise lookin drippins threw the coil & hunny yu wood be surprised. it shore did hav a good stink 2 it & a hole lot of it. well the next thing I noed before I even had a chanct 2 test out what it was, the law had done smelt it & five or six of them cum in on me with their guns drawed. well they tore up the outfit & put me in jale in defaults of bond 2 see what the judge will say if I was makin whisky.

but hunny a judge is a lot more reasonabler than a cop so I do not think that I will hav enny trubbel gittin out. he is got enuff sents 2 no what I meen when I tell him what I was doin in a sciensetifick way & a cop aint got no more sents about scients than a hog noes about hip pockits. 2 show how mutch sents they hav got one of them says 2 me that they hav bin watchin me a long time because I was hangin around without no vissible meens of support & they was pretty shure that if I was not moonsainin & was hijackin & they had 2 git me ether one it was. so they did. but I gess they will no better next time after I hav showed them what a fool they are for stoppin a grate scienctific experyment whitch might meen a hole lot 2 the world in yeres 2 cum & also make paul peebles ever moar famuser that henry ford.

now hunny 2 keep yu from thinkin like they do that it was funny for me 2 start mi experymentin on watermelen rines, I will tell yu how cum I picked on them first.

well hunny it is a fashun now in menny circles where folks is sport enuff 2 want 2 pay moar for what they get so they can bragg about how mutch it costs them 2 live, they are using sum stuff they call ethel gas & also boyisite. 1 of them makes pink gasleen & the uther 1 green. so I figgers that if I cood make sum gasleen out of the watermelen rins it wood alreddy be pink or green whitch ever I made it acording 2 how mutch of the red meet it was on the rines or how close they was scraped. but hunny the law aint got no sents about these here things & will not let a man make hisself ritch when it is so easy 2 do it with just a littel copper still like I was runnin. How was I 2 no that in plase of gasleen it would make sumthin whitch smelled powerful like alkohol & whitch I did not git 2 tate 2 sea what it was on account they cum in on me so quick.

well hunny sintc I hav told yu where I am at I gess yu will not be susprised if I do not cum down 2 sea yu sundy like I had planned 2 do. but I just cant get away this time, but I will cum hunny just as soon as I can.

now remember what I told yu about how this was & do not lissen 2 none of them lies what that onnery slim will cum tellin yu as soon as he here about me bein in jale. he will try 2 poisen yore mind about me, so do not even lissen 2 him. he is a hot lire ennyway, & besides that if he was 2 hav his just deserts he wood not be in jale but wood a bin hung along time ago.

well hunny I will see yu agin just as soon as I can.

yore lovin paul

Boiler Tubes

Charcoal Iron Lapwelded Steel

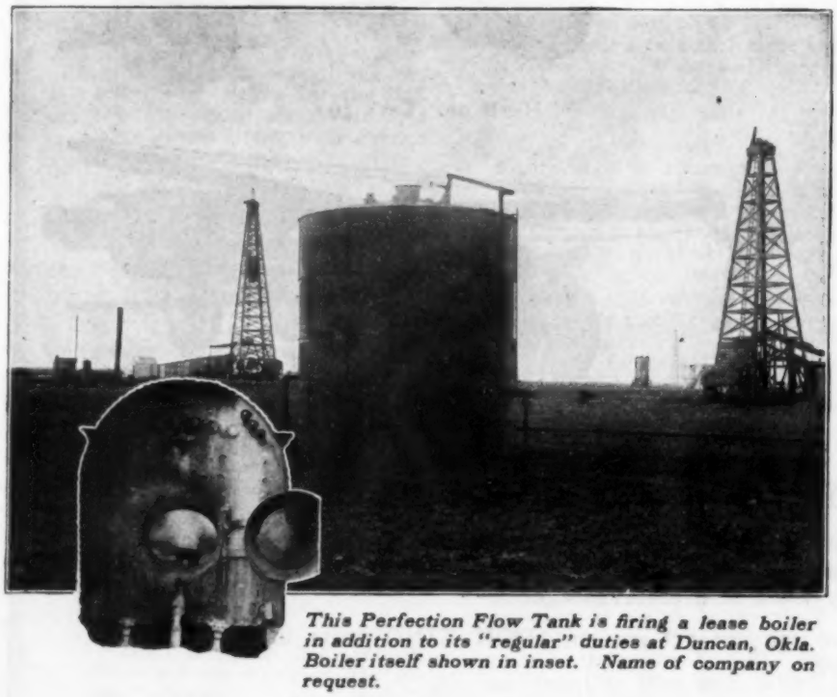
"Avoid frequent tube replacements by using our charcoal iron boiler tubes assuring long tube life and low ultimate cost under adverse water conditions."

THE TYLER TUBE & PIPE COMPANY

WASHINGTON, PA.

Texas Stock—Harrisburg Pipe & Pipe Bending Co. of Texas, Houston, Texas.

PERFECTION VAPOR PRESSURE TANKS
WOOD, AND BOLTED STEEL TANKS



This Perfection Flow Tank is firing a lease boiler in addition to its "regular" duties at Duncan, Okla. Boiler itself shown in inset. Name of company on request.

DISTRIBUTION POINTS

OKLAHOMA
Apperson
Bartlesville
Barnsdall
Blackwell
Bristow
Cleveland
Drumright
Duncan
Garber
Healdton
Henryetta
Holdenville
Hominy
Okemah
Okmulgee
Ponca City
Shidler
Sayre
Tonkawa
Tulsa
Wynona

KANSAS
Augusta
El Dorado
Florence
Garnett
Gridley
Independence
Madison
Russel
Sedan
Virgil

TEXAS
Amarillo
Breckenridge
Burkburnett
Corsicana
Graham
Panhandle
Ranger
Rising Star
Westbrook

WYOMING
Casper
Teapot

Killing Three Birds With One Stone

The Perfection Vapor Pressure Tank used as a gas separator is the most economical piece of oil field equipment you could possibly buy.

Why? Simply because it scrubs oil clean, solves your fuel problem, and delivers excess quantities of gas to the gasoline plant.

"Paying for Itself" isn't an expressive enough term to indicate the real value of the Perfection Flow Tank.

So absurdedly simple too!

It's merely the adaption of centrifugal force in a scientific manner. Installation of a costly gas separator is thus avoided.

The Perfection Flow Tank is just as important in its relation to saving money for oil producers as the Perfection Vapor Pressure Tank, which absolutely eliminates all gaugeable evaporation losses.

Get in touch with one of our field representatives today. It will be one of the biggest moves for economy you ever made.

Black Sivalls & Bryson
·INC·

BARTLESVILLE ~ OKLAHOMA

Branch offices in all principal active fields

Why Stretch Your Neck?

Men who are working on a short masted pulling machine, and forced to keep one eye below and the other trained on the crown pulley to keep the tubing hook clear, are at a disadvantage. They are fearful of their own safety and cannot give the job the speed and careful consideration it merits if the cause were removed.

Hitch on. Let's go.

Easily balanced.

Room To Spare Above

With an IRON KING, whose crown pulley towers forty feet above the ground when fully extended, the workman is assured of plenty of room and can give his entire attention to his elevators and wrenches. Why work at a disadvantage?

If your oil well supply store will not get you an IRON KING write us direct. Tell us where to send you a catalog.

Iron King Manufacturing Co.
Bradner ——————— Ohio

He sets it up alone.

Ready to pull.

SQUEAKS from the BULL WHEEL

Dorothy—Do you think these photographs do me justice?

Janet—Justice tempered with mercy, I should say.—Judge.

"Waiter, you may bring me some Blue Points on the half shell, cream of tomato soup, a large sirloin steak with French fried potatoes, an order of celery, apple pie a la mode and a demi-tasse."

"Yes, sir. Your name, sir?"

"What in thunder do you want to know my name for?"

"Beg pardon, sir, but it is the custom of the house to look up the financial rating of our guests before serving them."—Judge.

North—I hear Dobbs gives his wife credit for everything he does.

West—No—he gives her the blame.—Judge.

Willis—The 'Steenth National bank building had a narrow escape yesterday.

Gillis—Bombs?

"No; the old fire escape. They put on a wider one today."—Judge.

Mrs. Fatt: "Do you think my new portrait does me justice?"

Mrs. Catt: "Justice? It's downright merciful."

"Is he the sort of young man you would want your daughter to marry?"

"No, he isn't."

"But you haven't raised a single objection to his coming to the house."

"No. I've learned that the best way to encourage a marriage is to discourage it."—Detroit Free Press.

"Do you ever keep your ear to the ground."

"Not now," said Congressman Swayback. "I gotta radio outfit." — Louisville Courier-Journal.

By the Phone Girl

"Just a moment, Mr. La Follette," said the young lady at the switch board; "I am trying to get your party."—Detroit News.

Sister in Doubt

"You are the sunshine of my life. Your smile falls like lightning into my soul. With you by my side I would defy all the storms of life."

"Is this a proposal or a weather report?" — Sondags Nisse.

Doctor — Your nerves are weak. You must take a holiday.

Patient—Then please get my nerves strong enough for me to ask the boss for one!—Humorist (London).

Little Tommy had a sore toe, so his mother thought this a good opportunity to make him eat his cereal.

"Tommy," she said, "if you eat your oatmeal it will cure your toe."

Shortly afterward Tommy came to his mother with a very disgusted air.

"I ate my cereal," he said, "but my toe isn't any better, I guess the darn stuff went down the wrong leg."—Judge.

He Won, of Course

Senator Edwards, of New Jersey, told a story on the Leviathan.

"Two famous debaters were to debate," he said, "on the question of which is the more valuable sense, the sense of taste or the sense of smell. An audience a thousand strong gathered to hear them.

"Well, the smell man spoke eloquently for two hours, and when he finished the applause was thunderous. Next the taste man rose.

"'Bring me a whiskey and soda,' he shouted.

"The drink was brought to him, amber-colored, sparkling. He tossed it off. Then smacking his lips, he handed the empty glass disdainfully to his opponent.

"'You smell it,' he said."—Atlantic Constitution.

When Fortune Smiled

She—"Do you remember that you once proposed to me and I refused you?"

He—"Yes, that is one of my life's most beautiful memories."

Only Too Obvious

Professor—"Can any person in this class tell me what steel wool is?"

Pie Bate—"Sure. Steel wool is shearings from hydraulic rams."—Stanford Chaparral.

Mother's New "Help"

"Why, Sarah, the parlor windows are so dirty I can't see through them."

"Well, ma'am, I just come in the front door, an' except fer Miss Ritz an' her young gent across the way in the windy, there ain't a thing worth lookin' at."—American Legion Weekly.

Young Author—I would like to write something which will make my name known in every home!

Blackstone—To achieve fame like that, my boy, it will have to be THE perfect home-brew recipe!—Judge.

"In Siberia they don't hang a man with a wooden leg."

"Why not?"

"They use a rope."—Continent.

Agatha—My servants never leave me.

Harriett — Don't you find housekeeping monotonous? — Judge.

Grace was taking her first look at the new baby, and gaily mimicking its little wrinkled face.

"I'm afraid you don't like your new sister very well," observed the nurse.

"Oh, yes, I do, Miss Smith. I admire it very much. Why, it is just my favorite shade of red!"—Judge.

Husband Insulted

"I was held up by a footpad."

"Mercy! How exciting! Did he demand your money or your life?"

"Yes, but I only had 60 cents about me."

"And he took that in preference to your life? What an insult!"—Boston Transcript.

Mr. Lundberg and wife are looking for a site for their new house. After a while they came to a spot and Mrs. Lundberg exclaimed:

"Oh, Adolph, this view strikes me dumb."

"Well, dear, I think we will select this."—Kasper (Stockholm).

A Piece of Luck

"So your son has decided not to go into the ministry?"

"Yes. He discovered by accident that he had a talent for brick-laying."

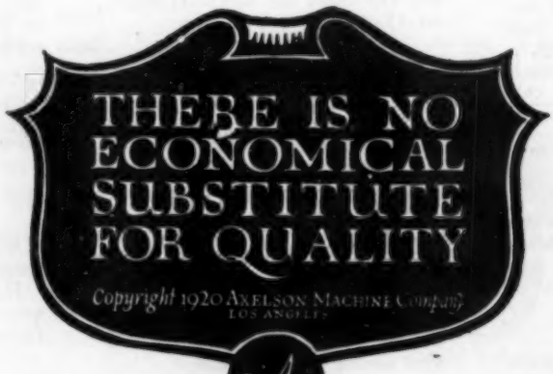
Not to Be Ignored

Even the man who boasts that he has no superstitions is pretty sure to believe in detour signs.

Keeping Polly Pure

"Mary—Mary! . . . Come quickly and take the parrot away—the master's lost his collar stud."

Write - - - - For - - - - Catalog - - - - Today!



Axelson Pumps are *Entirely* Contained inside of a steel jacket—thus preventing pump from getting broken while in the well! Every part is interchangeable!

Axelson Machine Company

General Offices and Western Factory:

Corner Randolph St. and Boyle Ave., Los Angeles Calif.

Eastern Sucker Rod Factory: St. Louis, Mo. Mid-Continent Branch Office: 1023 Kennedy Bldg., Tulsa, Okla. Mid-Continent Sales Representatives and Distributors: Frick-Reid Supply Co. Casper, Wyoming Office—with Frick-Reid Supply Co. New York City Office—30 Church Street.

GUIDE FOR PURCHASERS

Air Compressors—
Continental Supply Company
Southern Engine and Pump Co.

Air Lift Pumping Equipment—
Sullivan Machinery Co.

Attorneys—
Hirsch & Hannay
Vinson, Elkins & Wood

Balls and Seats—
Bradford Motor Works
Continental Supply Company
The Chas. N. Hough Mfg. Co.

Band Wheels—
Continental Supply Company
International Derrick & Equipment Company
Lee C. Moore & Co., Inc.

Banks—
Commercial National Bank

Belting—
Bridgeport Machine Company
Continental Supply Company
D. F. Connolly Agency
Frick-Reid Supply Co.
International Supply Company
Oil Well Supply Co.
Republic Supply Co.
Stanley Belting Corp.

Boilers—
Bridgeport Machine Co.
The Brownell Co.
D. F. Connolly Agency
Continental Supply Company
Frick-Reid Supply Co.
International Supply Co.
The National Supply Cos.
Oil Well Supply Co.
Republic Supply Company
Regan Forge & Engineering Co.
Titusville Iron Works Co.
United Iron Works, Inc.
See Oil Field Supplies and Tanks

Boiler Tubes—
The Tyler Tube & Pipe Co.

Blowout Preventer—
Baash-Ross Tool Company
Cameron Iron Works
Continental Supply Company
Regan Forge & Engineering Co.

Burners—
Continental Supply Company
Gaso Pump & Burner Mfg. Co.
Regan Forge & Engineering Co.

Bull Wheels—
Continental Supply Company
International Derrick & Equipment Company
Lee C. Moore & Co., Inc.

Calf Wheels—
Continental Supply Company
International Derrick & Equipment Company
Lee C. Moore & Co., Inc.

Casing—
Continental Supply Company
David L. Schofield
Oil Field Salvage Co.
Regan Forge & Engineering Co.
Republic Supply Company
Superior Tube Co.

Casing Shoes—
Baker Casing Shoe Co.
Bridgeport Machine Co.
Continental Supply Company
Gulf Coast Machine & Supply Co.
The National Supply Cos.
Pelican Well Tool & Supply Co.
Regan Forge & Engineering Co.
Republic Supply Company
W-K-M Co.

Cement Hardener—
The Sullivan Co.
W-K-M Co.

Chains—
Link Belt Co.

Charcoal Iron Boiler Tubes—
The Tyler Tube & Pipe Co.

Control Heads—
Continental Supply Company
Southern Brass Mfg. & Plating Co.

Core Drills—
Elliott Core Drilling Co.
Spengler Core Drilling Co.

Compressors—
Butler Mfg. Co.
Continental Supply Company
F. W. Heitmann Co.
Hope Engineering Co.
Sullivan Machinery Co.
United Iron Works, Inc.

Cordage—
D. F. Connolly Agency
Continental Supply Company
The National Supply Cos.
Republic Supply Company

Crown Blocks—
American Well & Pros. Co.
Baash-Ross Tool Company
Boykin Machinery & Supply Co.
Continental Supply Company
Gulf Coast Machine & Supply Co.
International Derrick & Equipment Company
Lufkin Foundry & Machine Co.
Oil Well Supply Co.
Parkersburg Rig & Reel Co.
Superior Tube Co.

Couplings—
Continental Supply Company
Harrisburg Pipe & Pipe Bending Company
Steel Coupling Co.
Superior Tube Co.

Dehydrating Processes—
W. S. Barnickel & Co.
Petroleum Rectifying Co.

Derricks and Rigs—
International Derrick & Equipment Company
Lee C. Moore & Co.
National Turnbuckle Derrick Co.
Parkersburg Rig & Reel Co.
Peden Iron & Steel Co.
Superior Tube Co.
Wertzberger Derrick Co.

Diamond Core Drills—
Sullivan Machinery Co.

Disc Bits—
Continental Supply Company
Rotary Disc Bit Co.

Ditchers—
Buckeye Traction Ditcher Co.

Draw Works—
American Well & Pros. Co.
Continental Supply Company
Lufkin Foundry & Machine Co.

Drilling Cables—
American Cable Co.
Bridgeport Machine Co.
D. F. Connolly Agency
Continental Supply Company
Frick-Reid Supply Co.
F. W. Heitmann Co.
The National Supply Cos.
Peden Iron & Steel Co.
Regan Forge & Engineering Co.
Republic Supply Company
Williamsport Wire Rope Co.

Drill Pipe Slips—
Baash-Ross Tool Company
Continental Supply Company

Drilling Machines—
Bridgeport Machine Co.
Continental Supply Company
Keystone Driller Co.
Parkersburg Rig & Reel Co.
Star Drilling Machine Co.

Drill Collars—
Baash-Ross Tool Company
Continental Supply Company

Drill Pipe Cutting—
Baash-Ross Tool Company

Drilling Tools—
Baash-Ross Tool Company
Continental Supply Company

Drill Pipe—
Continental Supply Company
Frick-Reid Supply Co.
Republic Supply Company
Reading Iron Co.
Superior Tube Co.

Drilling Equipment—
American Well & Pros. Co.
Baash-Ross Tool Company
Bridgeport Machine Co.
Continental Supply Company
Republic Supply Company
Western Supply Company

Drive Pipe—
Continental Supply Company
Republic Supply Company
Reading Iron Co.
Superior Tube Co.

Electrical Equipment—
Westinghouse Elec. & Mfg. Co.

Elevators—
Bridgeport Machine Co.
Continental Supply Company
The Cunningham Company
Dunn Mfg. Co.
Gulf Coast Machine & Supply Co.
LeBus Rotary Tool Works
Wilson & Willard Mfg. Co.

Engines, Diesel—
Western Machinery Co.

Engines, Gas—
Continental Supply Company
Frick-Reid Supply Co.
The Pattin Bros. Co.
Western Machinery Co.

Engines, Oil—
Continental Supply Company
Frick-Reid Supply Co.
The Patton Bros. Co.
Western Machinery Co.

Engines, Pumping—
Ajax Iron Works
American Well & Pros. Co.
Bessemer Gas Engine Co.
Bridgeport Machine Co.
Continental Supply Company
The Brownell Co.
De La Vergne Machine Co.
C. C. Fetty & Co.
Franklin Valveless Engine Co.
Frick-Reid Supply Co.
Hope Engineering Co.
Lucey Mfg. Corp.
Lufkin Foundry & Machine Co.
The National Supply Cos.
National Transit Pump & Machine Company
Oil Well Supply Co.
Peden Iron & Steel Company
Republic Supply Company
Rock Island Plow Co.
Southern Engine & Pump Co.
Titusville Iron Works
Western Machinery Company

Engineers—
A. C. Bierman
C. N. Black
Samuel J. Caudill
David Donoghue
C. C. Fetty & Co.
Foster & Reiter
F. W. Freeborn Engineering Co.
Lee C. Moore & Co.
Oil Conservation Engineering Co.
L. H. Owen
D. T. Ring

Fire Protection—
Continental Supply Company
Oil Conservation Engineering Co.

Fish Tail Bits—
American Well & Pros. Co.
Continental Supply Company
Frick-Reid Supply Company
Gulf Coast Mach & Sup. Co.
Lucey Manufacturing Corp.
Pelican Well Tool & Supply Co.
Regan Forge & Engineering Co.
W-K-M Co.

Floor Circle Brace—
Continental Supply Company
Dunn Mfg. Co.

Fuel Oil—
Gulf Ref. Co.
Sinclair Ref. Co.

Gas Traps—
Continental Supply Company
Trumble Gas Trap Co.

Gasoline Extraction Compressors—
Continental Supply Company
Bessemer Gas Engine Co.
Sullivan Machinery Co.

Gasoline and Oil Storage Tanks—
Butler Mfg. Co.
Graver Corporation
Continental Supply Co.
Kansas City Struct. Steel Co.
Parkersburg Rig & Reel Co.

Gauges—
Continental Supply Company
Oil Conservation Engineering Co.

Genuine Wrought Iron Casing—
Reading Iron Co.
Superior Tube Co.

Geologists—
A. C. Bierman
Samuel J. Caudill
Alexander Deussen
David Donoghue
Edwin B. Hopkins
Foster & Reiter
Heath M. Robinson
L. H. Owen
Herald Bros.

Grips and Clamps—
Continental Supply Company
J. P. Ratigan
W-K-M Co.

Heat Exchangers—
Brown Welding & Machine Co.

Hoists—
Alamo Iron Works

Hose—
Continental Supply Company
D. F. Connolly Agency

Houses—
Crain Ready-Cut House Co.

Hydrometers—
The Braun Corp.

Laboratory Equipment—
Continental Supply Company
Fort Worth Laboratories

Lapwelded Steel Boiler Tubes—
The Tyler Tube & Pipe Co.

Lighting Systems—
Bridgeport Machine Co.
Continental Supply Company
R-F Electrical Mfg. Co.
Westinghouse Elec. & Mfg. Co.

Line Pipe—
Continental Supply Company
Republic Supply Company
Reading Iron Co.
Superior Tube Co.

Manufacturers—
Robinson Packer Co.

Maps—
Heydrick Mapping Co.

Meters—
Continental Supply Company

Motors—
Westinghouse Elec. & Mfg. Co.

Oil Field Supplies—
American Well & Pros. Co.
Bridgeport Machine Co.
Butler Mfg. Co.
Continental Supply Company
D. F. Connolly Agency
The Cunningham Company
C. C. Fetty & Co.
Frick-Reid Supply Co.
Graver Corporation
Gulf Coast Mach. & Sup. Co.
Erle P. Halliburton
International Supply Co.
Kansas City Struct. Steel Co.
Lee C. Moore & Co.
Lucey Manufacturing Corp.
The National Supply Cos.
Oil Well Supply Co.
Parkersburg Rig & Reel Co.
Peden Iron & Steel Co.
Pelican Well Tool & Sup. Co.
Republic Supply Company
Regan Forge & Engineering Co.
Robinson Packer Co.
H. M. Spence
Smith Separator Company
Southern Brass Mfg. & Plating Co.

GUIDE FOR PURCHASERS—Continued

Oil Field Supplies—(Cont.)

Superior Tube Co.
United Iron Works, Inc.
W-K-M Co.
Western Supply Company

Oil Stills—

The Braun Corp.

Oil Thieves—

The Braun Corp.

Oilwell Casing—

Continental Supply Company
Frick-Reid Supply Co.
Republic Supply Company
Superior Tube Co.

Oil Well Cementing—

Erle P. Halliburton

Overshots—

Baash-Ross Tool Co.
Continental Supply Company
LeBus Rotary Tool Works

Packers—

Continental Supply Company
The Guiberson Corp.
Layne & Bowler
Robinson Packer Co.
Pelican Well Tool & Supply Co.
Regan Forge & Engineering Co.
Western Supply Company
W-K-M Co.

Packing—

Continental Supply Company
D. F. Connolly Agency
Frick-Reid Supply Co.
The National Supply Cos.
Peden Iron & Steel Co.
Pelican Well Tool & Sup. Co.
Republic Supply Company

Paints—

Continental Supply Company
Peden Iron & Steel Co.

Panel Boards—

Westinghouse Electric & Mfg. Co.

Patents—

Hardway & Cathey
Jesse R. Stone

Pipe Grips—

Continental Supply Co.
W-K-M Co.

Pipe—

A. M. Byers Co.
Continental Supply Company
W. E. Detlor
Frick-Reid Supply Co.
F. W. Heitmann Co.
Harrisburg Pipe & Pipe Bending Co.
International Supply Co.
The National Supply Cos.
Oil Well Supply Co.
Peden Iron & Steel Co.
Reading Iron Co.
Republic Supply Company
David L. Schofield
Superior Tube Co.
Williamsport Wire Rope Co.

Pipe Screwing Machines—

Buckeye Traction Ditcher Co.

Pipe Wrenches—

Continental Supply Company
Dunn Mfg. Co.
The Guiberson Corp.
LeBus Rotary Tool Works
Republic Supply Company

Polish Rod Grips—

Sargeant Engineering Co.

Portable Buildings—

Butler Mfg. Co.
International Derrick & Equipment Company

Portable Compressors—

Continental Supply Company
Sullivan Machinery Co.

Portable Drilling Rigs—

Bridgeport Machinery Co.
Continental Supply Company
Lee C. Moore & Co.
Oil Well Service Co.
Parkersburg Rig & Reel Co.
Portable Rotary Rig Co.
The National Supply Cos.

Pulleys—

Continental Supply Company
Davis & Kuhns
International Derrick & Equipment Company
Lee C. Moore & Co.

Pullers—

Davis & Kuhns

Pulling Machines—

Clark Machine Co.
Continental Supply Company
Iron King Mfg. Co.
Safety Pulling Machine Co.

Pumps—

Axelson Machine Co.
American Well & Pros. Co.
Bradford Motor Works
Continental Supply Company
D. & B. Pump & Sup. Co.
C. C. Fetty & Co.
Frick-Reid Supply Co.
Gaso Pump & Burner Mfg. Co.
Goulds Manufacturing Co.
Lucey Manufacturing Corp.
National Transit Pump & Machine Co.
Oil Well Supply Co.
Pelican Well Tool & Supply Co.
Republic Supply Company
Southern Engine & Pump Co.
Texas Oil Pump Co.
United Iron Works, Inc.

Pumping Powers—

Continental Supply Company
C. C. Fetty & Co.
Frick-Reid Supply Co.
International Supply Company
Jensen Bros. Mfg. Co.
Kansas City Hay Press Co.
H. M. Spence

Refined Products—

Gulf Refining Company
Humble Oil & Refining Co.
Sinclair Refining Co.

Recorders—

Fort Worth Laboratories
The Foxboro Co., Inc.

Refinery Equipment—

Butler Mfg. Co.
Continental Supply Company
Graver Corporation
Kansas City Struct. Steel Co.
Oil Conservation Engineering Co.
Republic Supply Company
Smith Separator Company
Titusville Iron Works
United Iron Works, Inc.
Wyatt Metal & Boiler Works

Rig Irons—

Continental Supply Company
International Supply Co.
Lee C. Moore & Co.
Oil Well Supply Co.
Parkersburg Rig & Reel Co.
Republic Supply Company

Rig Timbers—

D. D. Wertzberger

Rotaries—

International Supply Company

Rotary Rock Bits—

Continental Supply Company
Hughes Tool Co.

Rotary Fish Tail Bits—

Continental Supply Company
Pelican Well Tool & Supply Co.
Regan Forge & Engineering Co.
Republic Supply Company
W-K-M Co.

Separators—

Butler Mfg. Co.
Continental Supply Company
Smith Separator Company
Trumble Gas Trap Co.

Structural Steel—

Butler Mfg. Co.
Kansas City Struct. Steel Co.
United Iron Works, Inc.

Steel Derricks—

Continental Supply Company
International Derrick & Equipment Company
Lee C. Moore & Co., Inc.
Superior Tube Co.

Steel Crown Blocks—

Continental Supply Company
Gulf Coast Mach. & Sup. Co.
International Derrick & Equipment Company
Lee C. Moore & Co.
Parkersburg Rig & Reel Co.
Superior Tube Co.

Steel Manufacturers—

Colonial Steel Co.

Steel Storage Tanks—

Butler Mfg. Co.
Continental Supply Company
Graver Corporation

Strainers—

Continental Supply Company
Layne & Bowler Co.
Pelican Well Tool & Supply Co.
W-K-M Co.

Sucker Rod Lines—

D. F. Connolly Agency
Continental Supply Company

Sucker Rods—

Axelson Machine Co.
Continental Supply Company
D. & B. Pump & Sup. Co.
Dunn Mfg. Co.
Frick-Reid Supply Co.
S. M. Jones Co.
The National Supply Cos.
Oil Well Supply Co.
J. P. Ratigan
Republic Supply Company

Sucker Rod Sockets—

Bradford Motor Works
Continental Supply Company
Brown Welding & Machine Co.

Swabs—

Continental Supply Company
The Cunningham Company

Tank Bolts—

Continental Supply Company
Steel Mfg. & Warehouse Co.

Tanks—

American Tank Co.
Butler Mfg. Co.
Black, Sivalls & Bryson
Columbian Steel Tank Co.
Continental Supply Company
The Brownwell Co.
Gantz Tank Co.
Graver Corporation
Kansas City Structural Steel Co.
Maloney Tank Co.
Parkersburg Rig & Reel Co.
Petroleum Iron Works
Pittsburgh-Des Moines Steel Co.
United Iron Works
Wyatt Metal & Boiler Works

Tank Equipment—

Continental Supply Company
Oil Conservation Engineering Co.

Temper Screws—

Burns Tool Co.

Tret-O-Lite—

W. S. Barnickel & Co.

Thermometers—

Continental Supply Company
Fort Worth Laboratories
The Foxboro Co., Inc.

Tongs—

Bridgeport Machine Co.
Continental Supply Company
Dunn Mfg. Co.
Guiberson Corp.
LeBus Rotary Tool Works
Pelican Well Tool & Supply Co.
Wilson & Willard Mfg. Co.
W-K-M Co.

Tool Joints—

American Well & Pros. Co.
Baash-Ross Tool Company
Boykin Machinery & Sup. Co.
Bridgeport Machine Co.
Continental Supply Company
Hughes Tool Co.
Pelican Well Tool & Sup. Co.
Regan Forge & Engineering Co.
Republic Supply Co.
W-K-M Co.

Tools (Fishing and Drilling)—

Bridgeport Machine Co.
Brown Welding & Mach
Continental Supply Co
Frick-Reid Supply Co.
Hughes Tool Co.
International Supply
Oil Well Supply Co.
Peden Iron & Steel
Pelican Well Tool
Regan Forge & E
Republic Supply C
Sullivan Machinery Co.
Western Supply Company
W-K-M Co.

Toothless Slips—

LeBus Rotary Tool Works

Tractor Winch—

Rock Island Plow Co.

Traveling Blocks—

American Well & Pros. Co.
Baash-Ross Tool Company
Boykin Machinery & Sup. Co.
Continental Supply Company
Gulf Coast Machine & Sup. Co.
Lufkin Foundry & Machine Co.
Regan Forge & Engineering Co.

Tubing Catcher—

Continental Supply Company
Dunn Mfg. Co.
Guiberson Corp.

Tubing Lines—

Continental Supply Company
D. F. Connolly Agency

Tubing—

Continental Supply Company
Republic Supply Company
Reading Iron Co.
Standard Seamless Tube Co.
Superior Tube Co.

Underreamers—

American Well & Pros. Co.
Bridgeport Machine Co.
Continental Supply Company
Western Supply Company
Wilson & Willard Mfg. Co.

Vacuum Pumps—

Continental Supply Company
Sullivan Machinery Co.

Valves—

Bradford Motor Works
Continental Supply Company
Darling Valve & Mfg. Co.
The Charles N. Hough Mfg. Co.
Texas Oil Pump Co.
Ludlow Valve Mfg. Co.
Oil Conservation Engineering Co.
Pratt & Cady
Reading Steel Casting Co.
Reading Valve & Fitting
Smith Separator Compa
Southern Brass Mfg. &
Westcott Valve Mfg.
W-K-M Co.

Valves and F

Continental Supply
Darling Valve &
D. & B. Pump
F. W. Heitmann
Ludlow Valve
Lufkin Foundry achine Co.
The National Cos.
Peden Iron & Co.
Pittsburgh P ced Brazing and Machine any.
Pratt & Ca
Republic S Company
Reading S Casting Co.
Reading & Fittings Co.
United I Works
W-K-M

Wal Beams—

Contin Supply Company
Inter Derrick & Equipment C
Lee & Co., Inc.

g and Cutting ent—

Continental Supply Company

Working Barrels—

Axelson Machine Co.
Bradford Motor Works
Continental Supply Company
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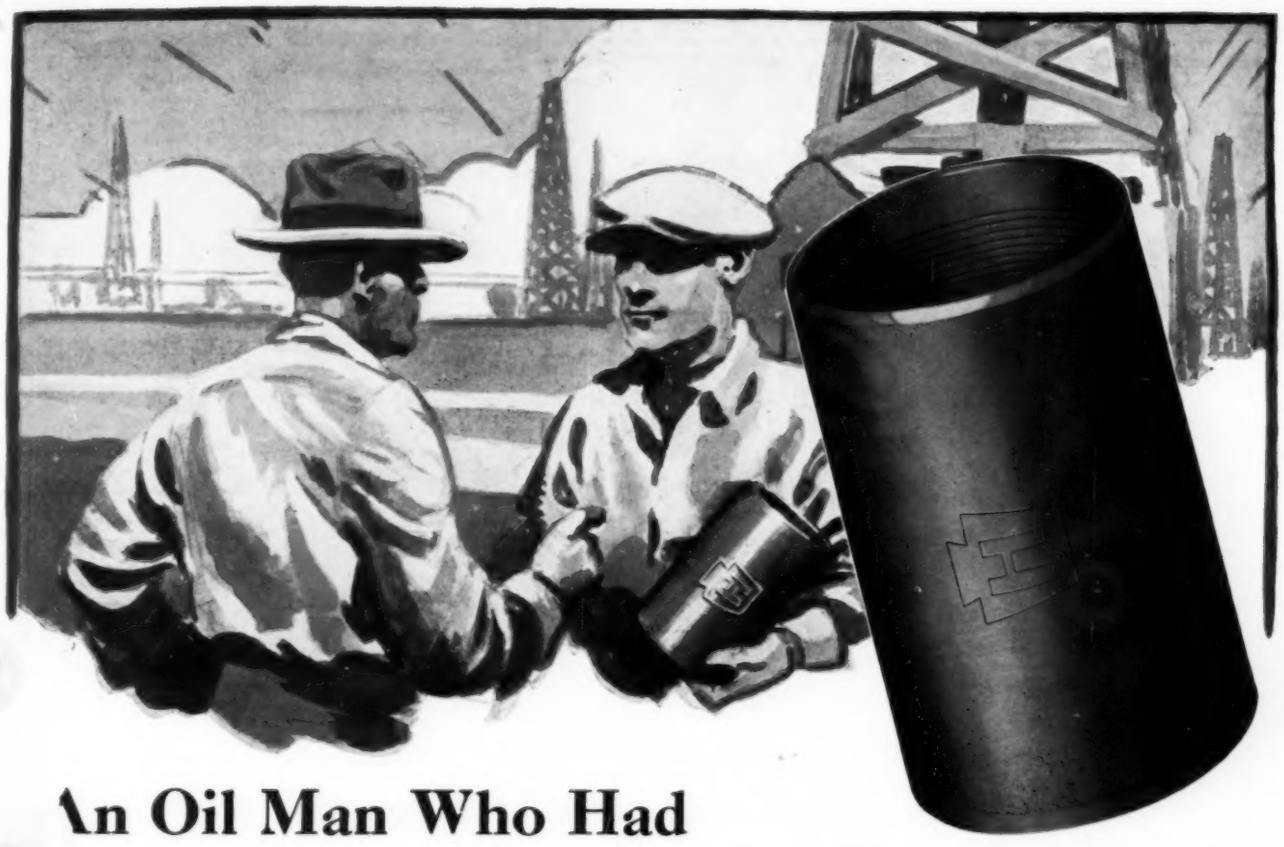

An Oil Man Who Had ever Used Any Coupling But Harrisburg

Couldn't Begin to Appreciate "Harrisburg's" Superiorities

The fellow who has standardized on Harrisburg Forged Seamless Steel Couplings because drilling delays, production losses and diminishing profits forced him to, knows by comparison of definite service records how much better a Harrisburg Coupling is.

To hold lengths of pipe together may seem a simple matter with any coupling, yet countless men in the oil fields say that it takes a Harrisburg Coupling of forged seamless steel to do the job right.

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1. **Harrisburg Couplings are seamless—no weld—no weakness.**
2. **They have double strength.** 3. **They will not gall or strip.**
4. **They will not get out of shape.** 5. **They are uniform throughout.**
6. **They are concentric, with perfect thread and taper from outer thread to the center.**

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